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* * * * * Welcome to STN International * * * * *

| | | | |
|------|----|--------|--|
| NEWS | 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS | 2 | AUG 06 | CAS REGISTRY enhanced with new experimental property tags |
| NEWS | 3 | AUG 06 | FSTA enhanced with new thesaurus edition |
| NEWS | 4 | AUG 13 | CA/CAPplus enhanced with additional kind codes for granted patents |
| NEWS | 5 | AUG 20 | CA/CAPplus enhanced with CAS indexing in pre-1907 records |
| NEWS | 6 | AUG 27 | Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB |
| NEWS | 7 | AUG 27 | USPATOLD now available on STN |
| NEWS | 8 | AUG 28 | CAS REGISTRY enhanced with additional experimental spectral property data |
| NEWS | 9 | SEP 07 | STN AnaVist, Version 2.0, now available with Derwent World Patents Index |
| NEWS | 10 | SEP 13 | FORIS renamed to SOFIS |
| NEWS | 11 | SEP 13 | INPADOCDB enhanced with monthly SDI frequency |
| NEWS | 12 | SEP 17 | CA/CAPplus enhanced with printed CA page images from 1967-1998 |
| NEWS | 13 | SEP 17 | CAPplus coverage extended to include traditional medicine patents |
| NEWS | 14 | SEP 24 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements |
| NEWS | 15 | OCT 02 | CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt |
| NEWS | 16 | OCT 19 | BEILSTEIN updated with new compounds |
| NEWS | 17 | NOV 15 | Derwent Indian patent publication number format enhanced |
| NEWS | 18 | NOV 19 | WPIX enhanced with XML display format |
| NEWS | 19 | NOV 30 | ICSD reloaded with enhancements |
| NEWS | 20 | DEC 04 | LINPADOCDB now available on STN |
| NEWS | 21 | DEC 14 | BEILSTEIN pricing structure to change |
| NEWS | 22 | DEC 17 | USPATOLD added to additional database clusters |
| NEWS | 23 | DEC 17 | IMSDRUGCONF removed from database clusters and STN |
| NEWS | 24 | DEC 17 | DGENE now includes more than 10 million sequences |
| NEWS | 25 | DEC 17 | TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment |
| NEWS | 26 | DEC 17 | MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary |
| NEWS | 27 | DEC 17 | CA/CAPplus enhanced with new custom IPC display formats |
| NEWS | 28 | DEC 17 | STN Viewer enhanced with full-text patent content from USPATOLD |
| NEWS | 29 | JAN 02 | STN pricing information for 2008 now available |
| NEWS | 30 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances |
| NEWS | 31 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats |
| NEWS | 32 | JAN 28 | MARPAT searching enhanced |
| NEWS | 33 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication |
| NEWS | 34 | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment |
| NEWS | 35 | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements |

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:34:21 ON 31 JAN 2008

=> FILE REG

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|----------------------|---------------------|------------------|
| FULL ESTIMATED COST | 0.42 | 0.42 |

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DICTIONARY FILE UPDATES: 30 JAN 2008 HIGHEST RN 1001156-45-1

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

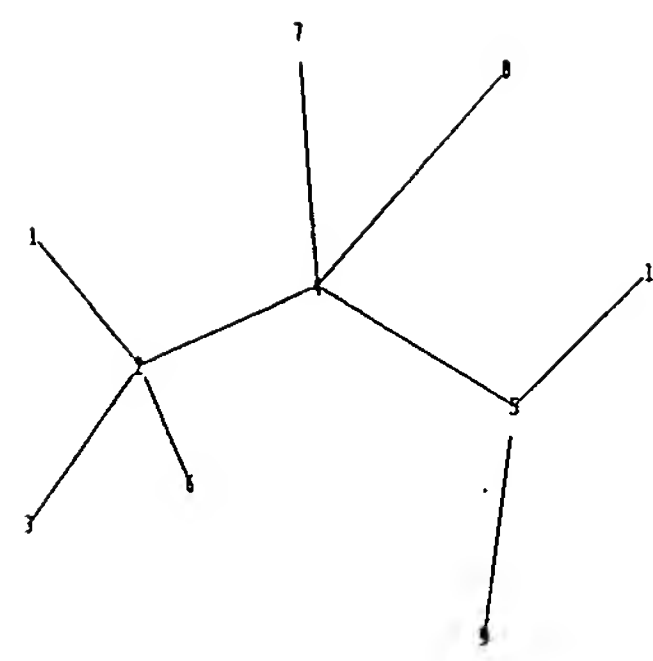
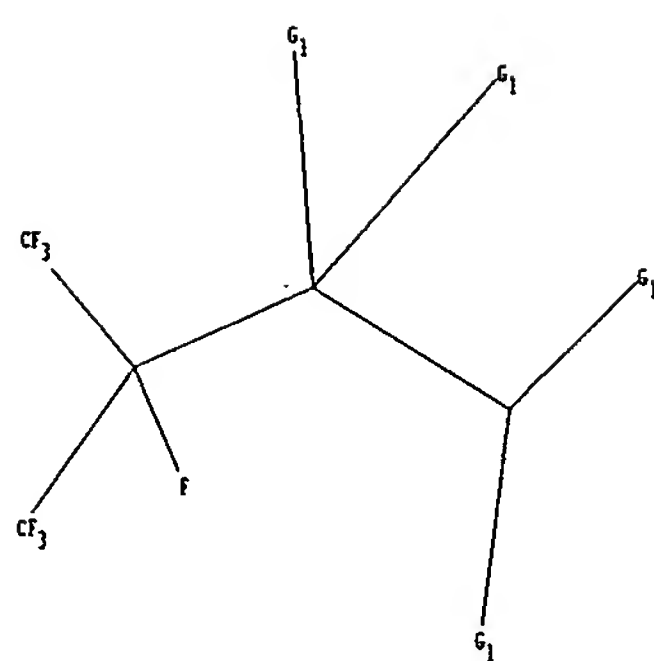
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\LC-15.str



chain nodes :
 1 2 3 4 5 6 7 8 9 10
 chain bonds :
 1-2 2-3 2-4 2-6 4-5 4-7 4-8 5-9 5-10
 exact/norm bonds :
 4-7 4-8 5-9 5-10
 exact bonds :
 1-2 2-3 2-4 2-6 4-5

G1:H,Cl,Br,F,I,CF3

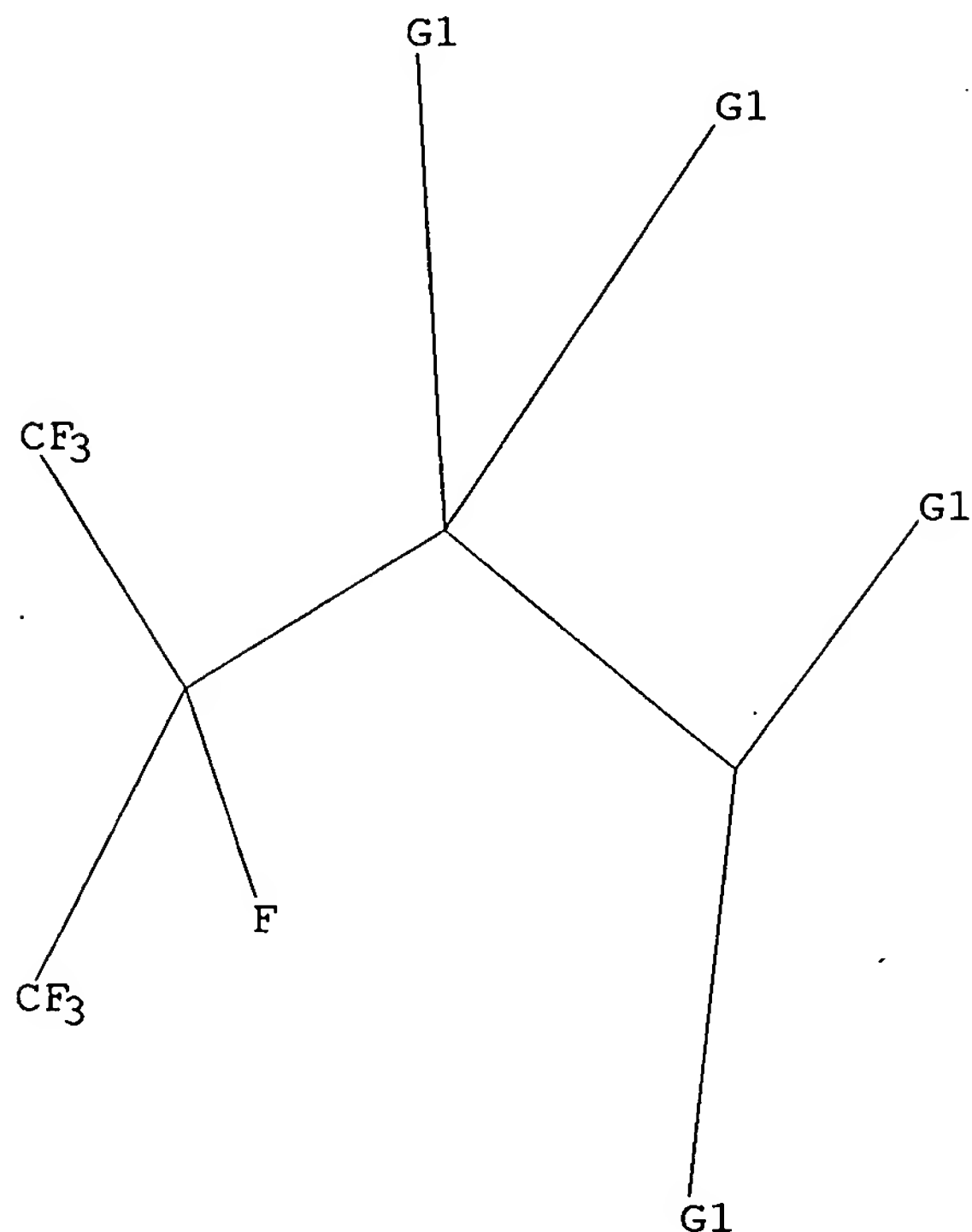
Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
 10:CLASS

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



G1 H, Cl, Br, F, I, CF3

Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL

FULL SEARCH INITIATED 09:36:33 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 5257 TO ITERATE

100.0% PROCESSED 5257 ITERATIONS

2329 ANSWERS

SEARCH TIME: 00.00.01

L2 2329 SEA SSS FUL L1

=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.82

179.24

FILE 'CAPLUS' ENTERED AT 09:36:49 ON 31 JAN 2008

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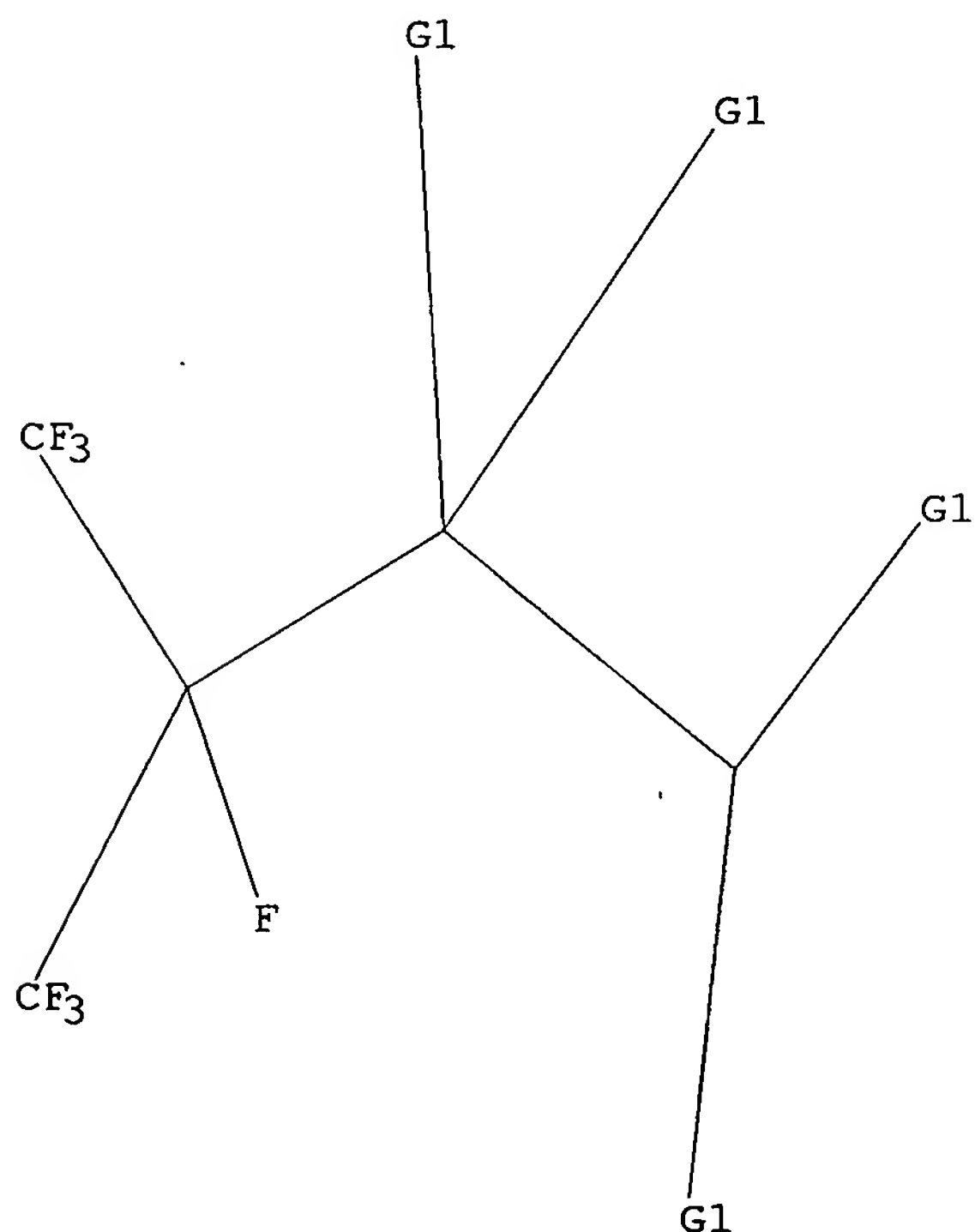
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FILE COVERS 1907 - 31 Jan 2008 VOL 148 ISS 5
FILE LAST UPDATED: 30 Jan 2008 (20080130/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> D L1
L1 HAS NO ANSWERS
L1 STR



G1 H, Cl, Br, F, I, CF3

Structure attributes must be viewed using STN Express query preparation.

=> S L2
L3 1200 L2

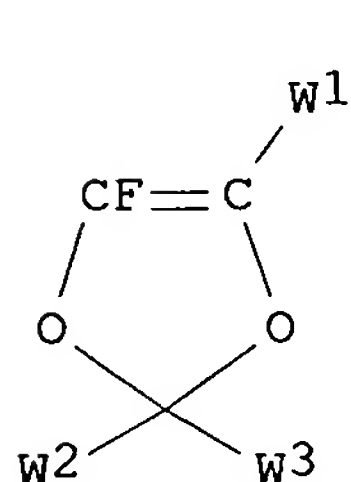
=> S L3 AND COMPOSITION
714582 COMPOSITION
L4 46 L3 AND COMPOSITION

=> D L4 IBIB ABS HITSTR 1-46

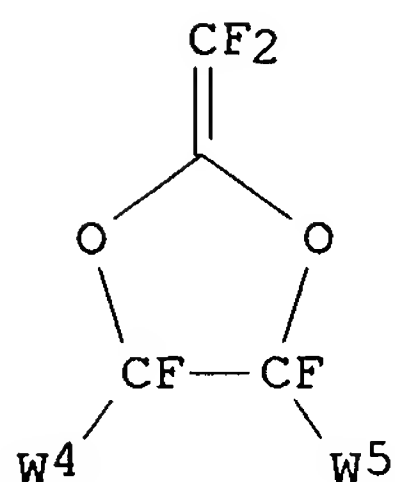
L4 ANSWER 1 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:64395 CAPLUS
TITLE: Immersion exposure resist composition and
pattern formation
INVENTOR(S): Shiota, Naoko; Takebe, Yoko; Kaneko, Isamu; Yokokoji,

PATENT ASSIGNEE(S): Osamu
 SOURCE: Asahi Glass Co., Ltd., Japan
 Jpn. Kokai Tokkyo Koho, 28pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|----------|
| JP 2008008974 | A | 20080117 | JP 2006-176879 | 20060627 |
| PRIORITY APPLN. INFO.: GI | | | JP 2006-176879 | 20060627 |



I



II

AB The composition contains (A) a polymer whose solubility to alkaline solution increases by the action of an acid, and (B) a polymer containing ≥ 10 mol% of repeating units selected from $\text{CF}_2\text{:CFQCX}_1\text{:CX}_2\text{X}_3$, I and II (Q= methylene, dimethylene, trimethylene, tetramethylene, oxymethylene, etc; these may be substituted with F, alkyl, fluoroalkyl, alkoxy, etc; $\text{X}_1 = \text{H, F, C1-12 alkyl or fluoroalkyl}$; $\text{X}_2\text{-3} = \text{H, F}$; $\text{W}_1 = \text{F, C1-3 perfluoroalkoxy}$; $\text{W}_2\text{-5} = \text{F, C1-6 perfluoroalkyl}$). The resist pattern is formed by the steps of (1) applying the composition on a substrate, (2) immersion exposing and developing the composition. The composition shows high transparency to shorter wavelength light, water repellency, and etching resistance.

IT 959856-35-0P 1001015-29-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(immersion exposure resist composition containing fluoropolymer and alkaline-solubility increasing polymer)

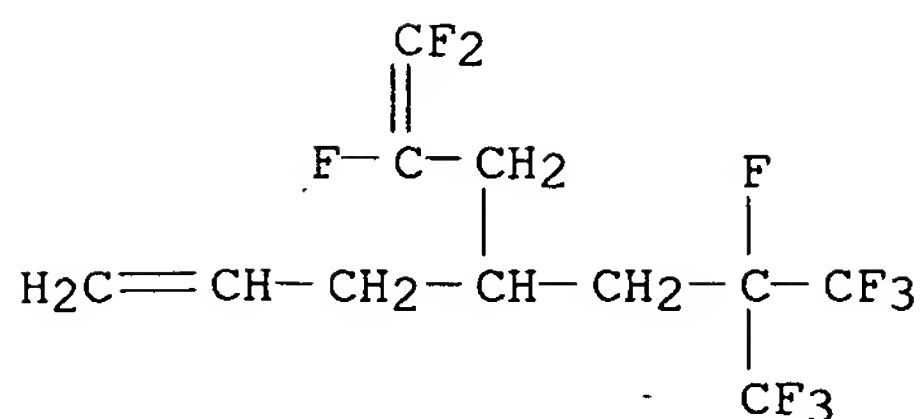
RN 959856-35-0 CAPLUS

CN 1,6-Heptadiene, 1,1,2-trifluoro-4-[2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-, homopolymer (CA INDEX NAME)

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CRN 959856-30-5

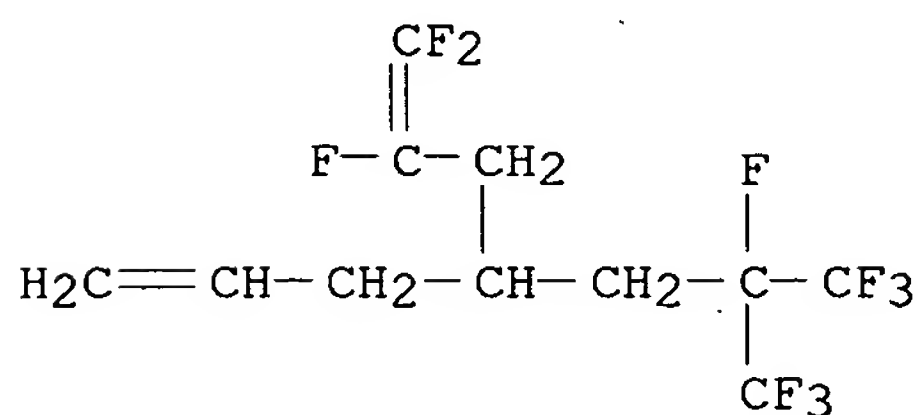
CMF C11 H10 F10



RN 1001015-29-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

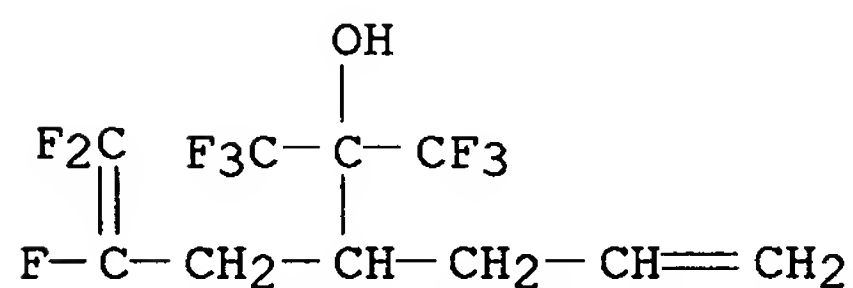
CM 1

CRN 959856-30-5
CMF C11 H10 F10

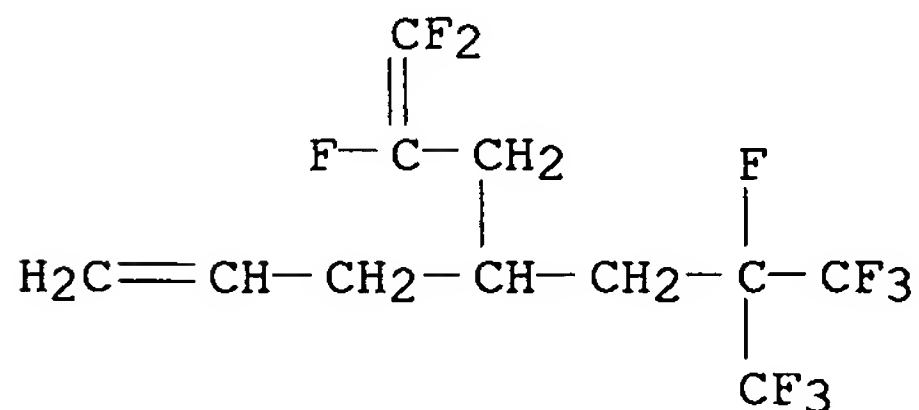


CM 2

CRN 795298-34-9
CMF C10 H9 F9 O

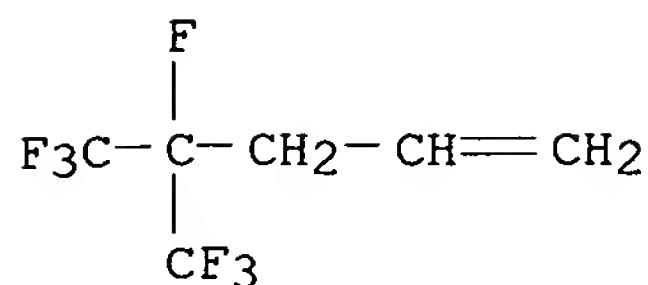


IT 959856-30-5P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and polymerization of)
RN 959856-30-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

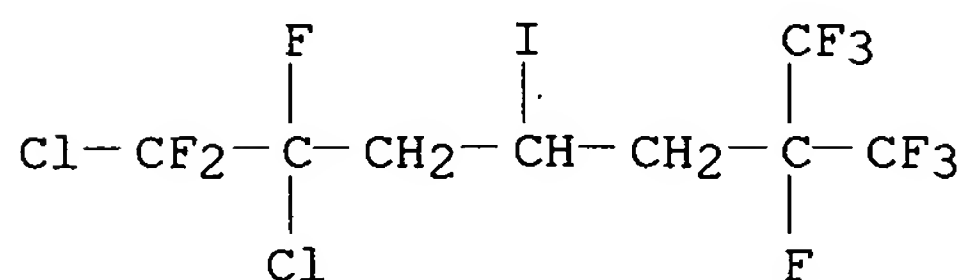


IT 38392-10-8P 959856-26-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of fluoro monomer)

RN 38392-10-8 CAPLUS
 CN 1-Pentene, 4,5,5,5-tetrafluoro-4-(trifluoromethyl)- (CA INDEX NAME)



RN 959856-26-9 CAPLUS
 CN Heptane, 1,2-dichloro-1,1,2,6,7,7,7-heptafluoro-4-iodo-6-(trifluoromethyl)-
 (CA INDEX NAME)



L4 ANSWER 2 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2007:755663 CAPLUS
 DOCUMENT NUMBER: 147:144125
 TITLE: Preparation of grafted fluorine-containing organopolysiloxane and polymer composition
 INVENTOR(S): Hayashi, Masayuki; Hupfield, Peter Cheshire; Okawa, Tadashi; Iimura, Tomohiro
 PATENT ASSIGNEE(S): Dow Corning Toray Co., Ltd., Japan; Dow Corning Corporation
 SOURCE: PCT Int. Appl., 35pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|----------|
| WO 2007077981 | A1 | 20070712 | WO 2006-JP326418 | 20061228 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| JP 2007177079 | A | 20070712 | JP 2005-377297 | 20051228 |

PRIORITY APPLN. INFO.: JP 2005-377297 A 20051228
 AB A 1 fluorine-containing organopolysiloxane is prepared by hydrosilylation of a polysiloxane with a polystyrene-type composition and/or an organic composition containing fluorine and unsatd. aliphatic bonds in the presence of a hydrosilylation catalyst, and a polymer composition containing the above polysiloxane is also provided. Thus, dimethylsilanediol-methylsilanediol copolymer was reacted

with vinyl-terminated polystyrene and fluorinated alkene $\text{CH}_2=\text{CHCH}_2\text{CF}(\text{CF}_3)_2$ in the presence of chloroplatinic acid to obtain a fluorine-containing polysiloxane.

IT 943630-53-3P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (comprised of actual and assumed monomers; preparation of grafted fluorine-containing organopolysiloxane and polymer composition)

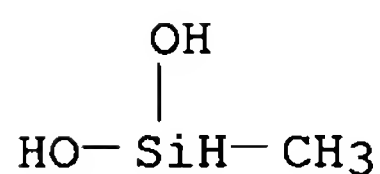
RN 943630-53-3 CAPLUS

CN Silanediol, 1,1-dimethyl-, polymer with ethenylbenzene, 1-methylsilanediol and 4,5,5,5-tetrafluoro-4-(trifluoromethyl)-1-pentene, graft (CA INDEX NAME)

CM 1

CRN 43641-90-3

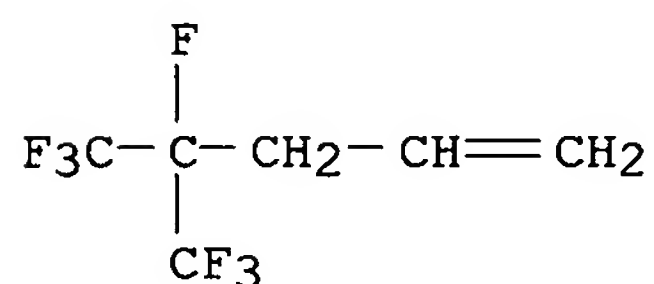
CMF C H6 O2 Si



CM 2

CRN 38392-10-8

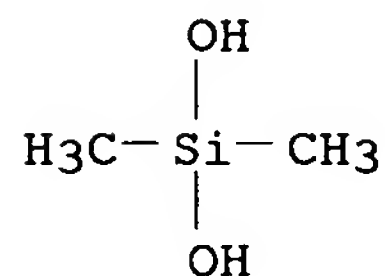
CMF C6 H5 F7



CM 3

CRN 1066-42-8

CMF C2 H8 O2 Si



CM 4

CRN 100-42-5

CMF C8 H8



IT 943630-54-4P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM
(Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of grafted fluorine-containing organopolysiloxane and polymer
composition)

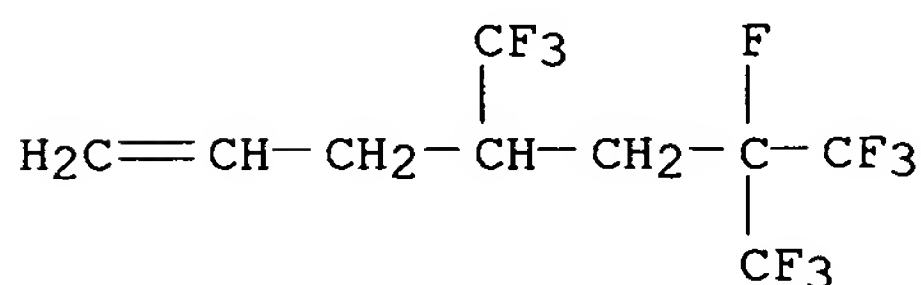
RN 943630-54-4 CAPLUS

CN Silanediol, 1,1-dimethyl-, polymer with ethenylbenzene, 1-methylsilanediol
and 6,7,7,7-tetrafluoro-4,6-bis(trifluoromethyl)-1-heptene, graft (CA
INDEX NAME)

CM 1

CRN 862497-92-5

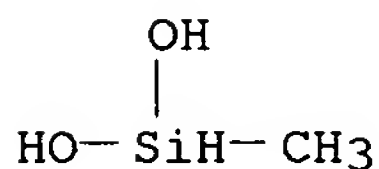
CMF C9 H8 F10



CM 2

CRN 43641-90-3

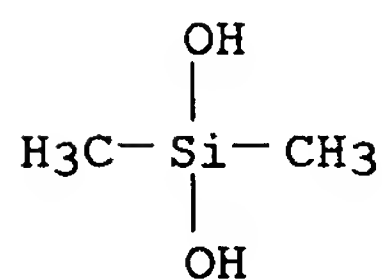
CMF C H6 O2 Si



CM 3

CRN 1066-42-8

CMF C2 H8 O2 Si



CM 4

CRN 100-42-5

CMF C8 H8



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:755454 CAPLUS

DOCUMENT NUMBER: 147:144121
 TITLE: Preparation of block fluorine-containing organopolysiloxane and polymer composition
 INVENTOR(S): Hayashi, Masayuki; Hupfield, Peter Cheshire; Okawa, Tadashi; Iimura, Tomohiro
 PATENT ASSIGNEE(S): Dow Corning Toray Co., Ltd., Japan; Dow Corning Corporation
 SOURCE: PCT Int. Appl., 25pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|------------------|----------|
| WO 2007077982 | A2 | 20070712 | WO 2006-JP326419 | 20061228 |
| WO 2007077982 | A3 | 20071115 | | |
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| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA | | | |
| JP 2007177080 | A | 20070712 | JP 2005-377298 | 20051228 |

PRIORITY APPLN. INFO.: JP 2005-377298 A 20051228

AB A 1 fluorine-containing organopolysiloxane is prepared by hydrosilylation of a polysiloxane with a polystyrene-type composition in the presence of a hydrosilylation catalyst, and a polymer composition containing the above polysiloxane is also provided. Thus, dimethylsilanediol-nonfluorohexylmethyilsilanediol copolymer was reacted with vinyl-terminated polystyrene in the presence of chloroplatinic acid to obtain a mix. of triblock and diblock fluorine-containing polysiloxanes.

IT 943630-51-1P 943761-12-4P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (comprised of actual and assumed monomers; preparation of block fluorine-containing organopolysiloxane and polymer composition)

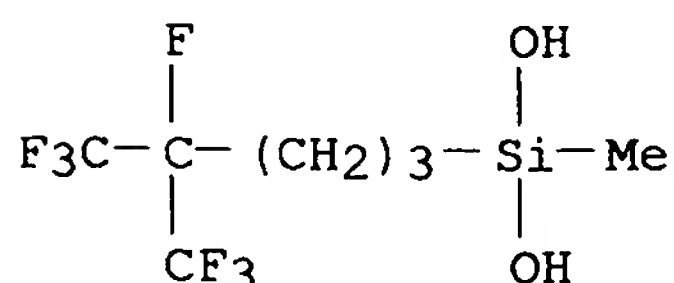
RN 943630-51-1 CAPLUS

CN Silanediol, 1,1-dimethyl-, polymer with ethenylbenzene and 1-methyl-1-[4,5,5,5-tetrafluoro-4-(trifluoromethyl)pentyl]silanediol, triblock (CA INDEX NAME)

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CRN 943630-50-0

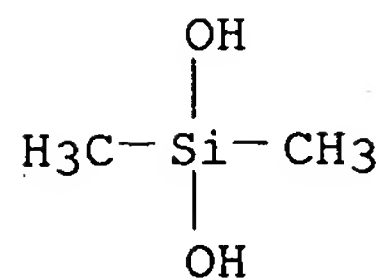
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CM 2

CRN 1066-42-8

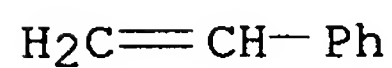
CMF C2 H8 O2 Si



CM 3

CRN 100-42-5

CMF C8 H8



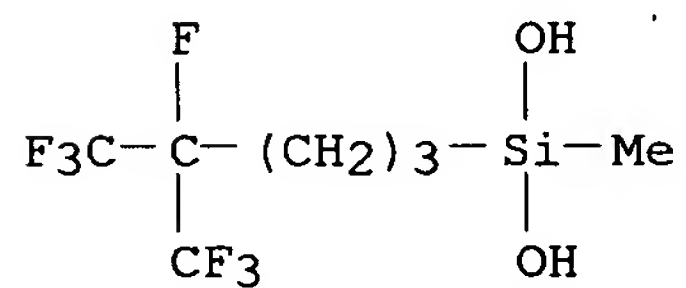
RN 943761-12-4 CAPLUS

CN Silanediol, 1,1-dimethyl-, polymer with ethenylbenzene and
1-methyl-1-[4,5,5,5-tetrafluoro-4-(trifluoromethyl)pentyl]silanediol,
diblock (CA INDEX NAME)

CM 1

CRN 943630-50-0

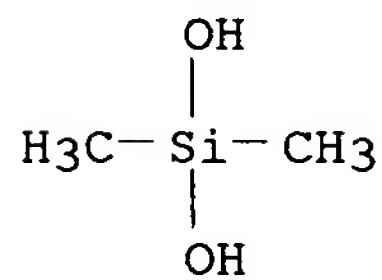
CMF C7 H11 F7 O2 Si



CM 2

CRN 1066-42-8

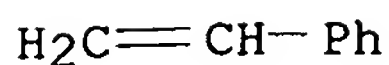
CMF C2 H8 O2 Si



CM 3

CRN 100-42-5

CMF C8 H8



L4 ANSWER 4 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:354609 CAPLUS
 DOCUMENT NUMBER: 146:382638
 TITLE: fluorine-containing ether compound composition
 INVENTOR(S): Takagi, Yoichi; Yanase, Nobukazu; Okamoto, Shuichi;
 Fukushima, Masato
 PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 2007077361 | A | 20070329 | JP 2005-270494 | 20050916 |
| PRIORITY APPLN. INFO.: | | | JP 2005-270494 | 20050916 |

OTHER SOURCE(S): MARPAT 146:382638

AB The composition contains a compound having a general formula of $\text{RF1OCFRF2CFRF2ORF1}$; where RF1 is C4-7 linear perfluoro alkyl and RF2 is F or CF_3 ; and an additive of $\text{CF}_3(\text{CF}_2)_5\text{H}$ and $\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}(\text{CF}_3)_2$; and has a viscosity of ≤ 1000 cP at -70° . The product has low viscosity at low temps. and is suitable as coolants.

IT 355-04-4, 1,1,1,2,2,3,3,4,5,5,5-Undecafluoro-4-

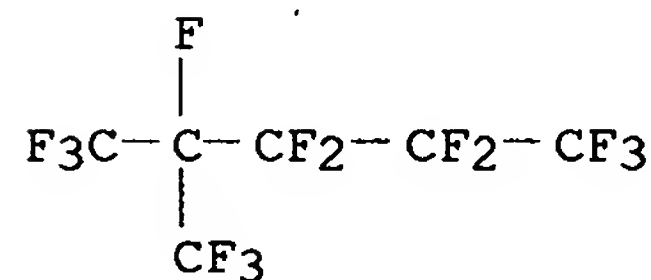
(trifluoromethyl)pentane

RL: MOA (Modifier or additive use); USES (Uses)

(fluorine-containing ether compound composition)

RN 355-04-4 CAPLUS

CN Pentane, 1,1,1,2,2,3,3,4,5,5,5-undecafluoro-4-(trifluoromethyl)- (CA INDEX NAME)



L4 ANSWER 5 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:257366 CAPLUS
 DOCUMENT NUMBER: 146:320164
 TITLE: Electrolyte composition
 INVENTOR(S): Costello, Michael G.; Flynn, Richard M.; Segawa,
 Haruki
 PATENT ASSIGNEE(S): 3M Innovative Properties Co., USA
 SOURCE: U.S. Pat. Appl. Publ., 24pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| US 2007054186 | A1 | 20070308 | US 2006-381862 | 20060505 |

WO 2007030297 A2 20070315 WO 2006-US32439 20060821
 WO 2007030297 A3 20070510

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.:

US 2005-715291P P 20050908
 US 2006-381862 A 20060505

OTHER SOURCE(S): MARPAT 146:320164

AB An electrolyte composition includes (a) a solvent composition including at least one

hydrofluoroether compound, the hydrofluoroether compound including two terminal fluoroalkyl groups and an intervening substituted or unsubstituted oxymethylene group, each of the fluoroalkyl groups including only one hydrogen atom and, optionally, at least one catenated (i.e., in-chain) heteroatom, with the proviso that, when the oxymethylene group is unsubstituted, at least one of the terminal fluoroalkyl groups is branched and/or includes at least one catenated heteroatom; and (b) at least one electrolyte salt.

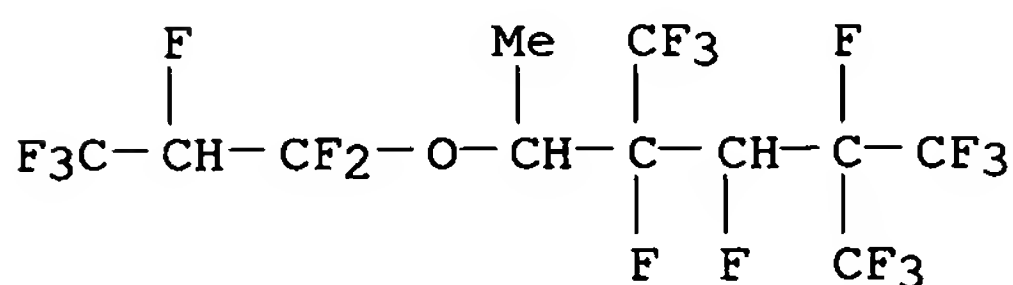
IT 928617-13-4P

RL: PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)

(battery electrolyte composition with high stability containing salts and hydrofluoro ethers and glycol ethers)

RN 928617-13-4 CAPLUS

CN Hexane, 1,1,1,2,3,4-hexafluoro-5-(1,1,2,3,3,3-hexafluoropropoxy)-2,4-bis(trifluoromethyl)- (CA INDEX NAME)



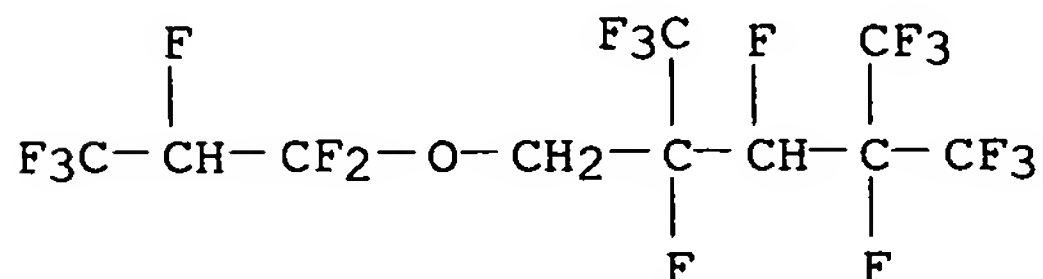
IT 928617-22-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(battery electrolyte composition with high stability containing salts and hydrofluoro ethers and glycol ethers)

RN 928617-22-5 CAPLUS

CN Pentane, 1,1,1,2,3,4,5,5,5-nonafluoro-2-[(1,1,2,3,3,3-hexafluoropropoxy)methyl]-4-(trifluoromethyl)- (CA INDEX NAME)



IT 928617-46-3 928617-55-4 928617-65-6

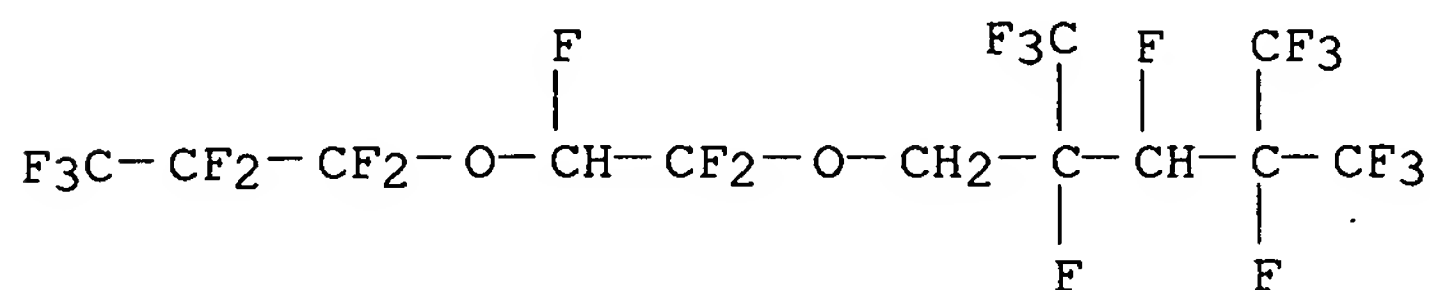
RL: TEM (Technical or engineered material use); USES (Uses)

(battery electrolyte composition with high stability containing salts and

hydrofluoro ethers and glycol ethers)

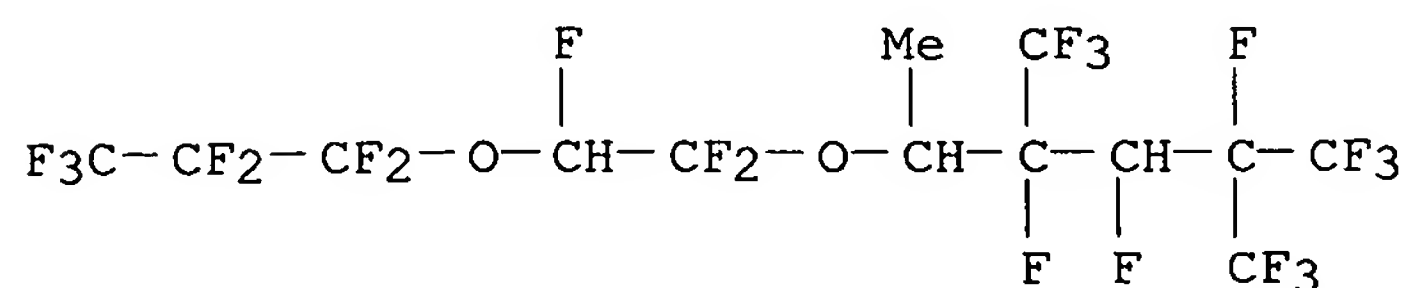
RN 928617-46-3 CAPLUS

CN Pentane, 1,1,1,2,3,4,5,5,5-nonafluoro-2-[[1,1,2-trifluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)ethoxy)methyl]-4-(trifluoromethyl)- (CA INDEX NAME)



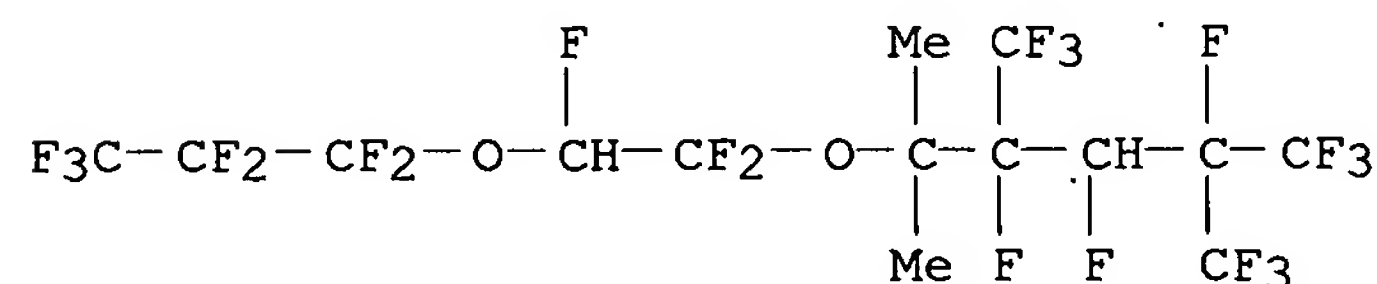
RN 928617-55-4 CAPLUS

CN Hexane, 1,1,1,2,3,4-hexafluoro-5-[1,1,2-trifluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)ethoxy]-2,4-bis(trifluoromethyl)- (CA INDEX NAME)



RN 928617-65-6 CAPLUS

CN Hexane, 1,1,1,2,3,4-hexafluoro-5-methyl-5-[1,1,2-trifluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)ethoxy]-2,4-bis(trifluoromethyl)- (CA INDEX NAME)



L4 ANSWER 6 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:239094 CAPLUS

DOCUMENT NUMBER: 146:268013

TITLE: Differences in the isomer composition of perfluorooctanesulfonyl (PFOS) derivatives

AUTHOR(S): Vyas, Sandhya M.; Kania-Korwel, Izabela; Lehmler, Hans-Joachim

CORPORATE SOURCE: Department of Occupational and Environmental Health, College of Public Health, University of Iowa, Iowa City, IA, 52242, USA

SOURCE: Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering (2007), 42(3), 249-255

CODEN: JATEF9; ISSN: 1093-4529

PUBLISHER: Taylor & Francis, Inc.

DOCUMENT TYPE: Journal

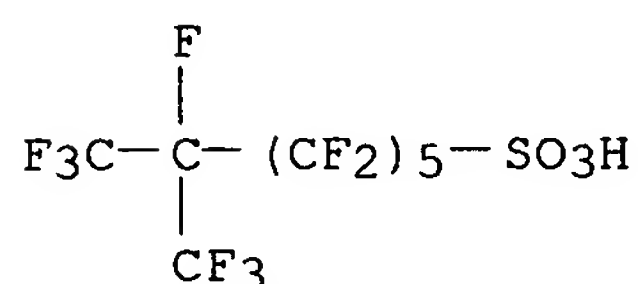
LANGUAGE: English

AB Perfluorooctanesulfonyl (PFOS)-based materials and related compds. are an emerging group of environmental pollutants. Perfluorooctanesulfonyl fluoride, the key intermediate for the production of these materials, was manufactured by an electrochem. fluorination process that resulted in complex mixts. containing linear and branched PFOS derivs. and other perfluorinated compds. This study uses ¹⁹F-NMR spectroscopy to investigate differences in the composition between com. samples of PFOS and PFBS

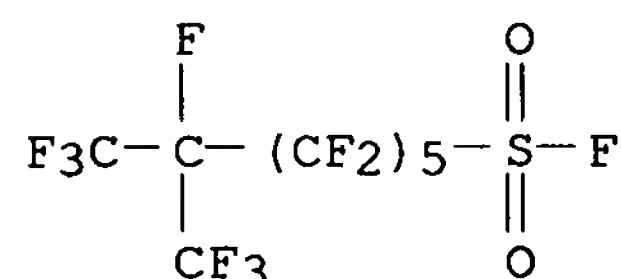
(perfluorobutanesulfonyl) derivs. While PFBS derivs., which are under evaluation as substitutes for PFOS-based materials, contained no detectable levels of branched impurities, all PFOS derivs. contained significant levels of branched and other impurities. Anal. of the NMR data reveals that PFOS fluorides typically have a higher content of internally branched and similar levels of iso-Pr branched PFOS isomers compared to PFOS potassium salts. Furthermore, the isomer distribution of PFOS derivs. may vary depending on their source. These findings suggest that it is important to determine the isomer composition of PFOS samples used in both environmental and toxicol. studies.

IT 255831-20-0 927670-06-2 927670-07-3
 RL: ANT (Analyte); ANST (Analytical study)
 (differences in isomer composition of perfluorooctanesulfonyl derivs.)

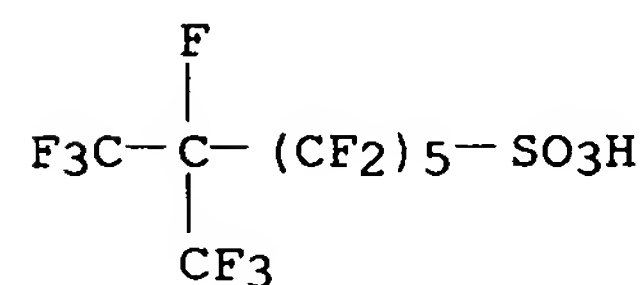
RN 255831-20-0 CAPLUS
 CN 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,7,7,7-tetradecafluoro-6-(trifluoromethyl)- (CA INDEX NAME)



RN 927670-06-2 CAPLUS
 CN 1-Heptanesulfonyl fluoride, 1,1,2,2,3,3,4,4,5,5,6,7,7,7-tetradecafluoro-6-(trifluoromethyl)- (CA INDEX NAME)



RN 927670-07-3 CAPLUS
 CN 1-Heptanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,7,7,7-tetradecafluoro-6-(trifluoromethyl)-, potassium salt (1:1) (CA INDEX NAME)



● K

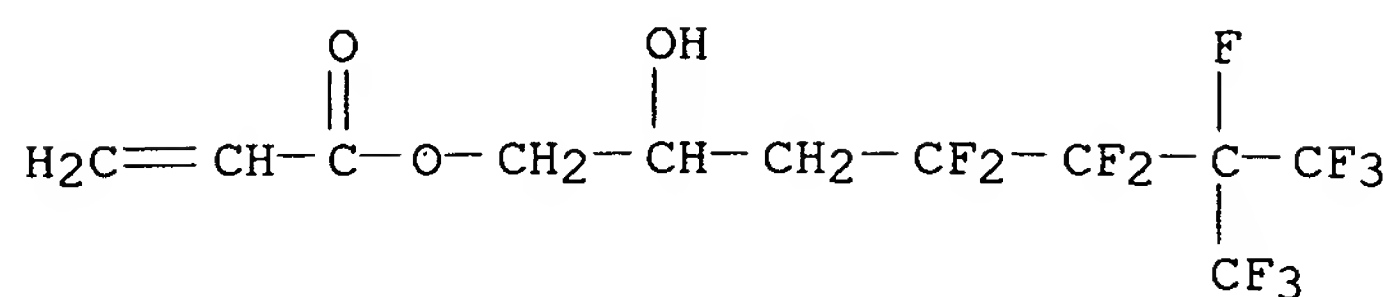
REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:972121 CAPLUS
 DOCUMENT NUMBER: 145:366478
 TITLE: Composition for forming antireflection film, laminate, for resist pattern
 INVENTOR(S): Yoshimura, Nakaatsu; Konno, Keiji; Natsume, Norihiro

CM 1

CRN 16083-76-4

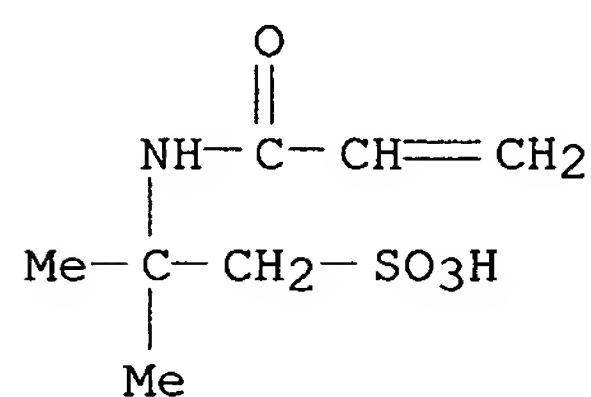
CMF C11 H9 F11 O3



CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



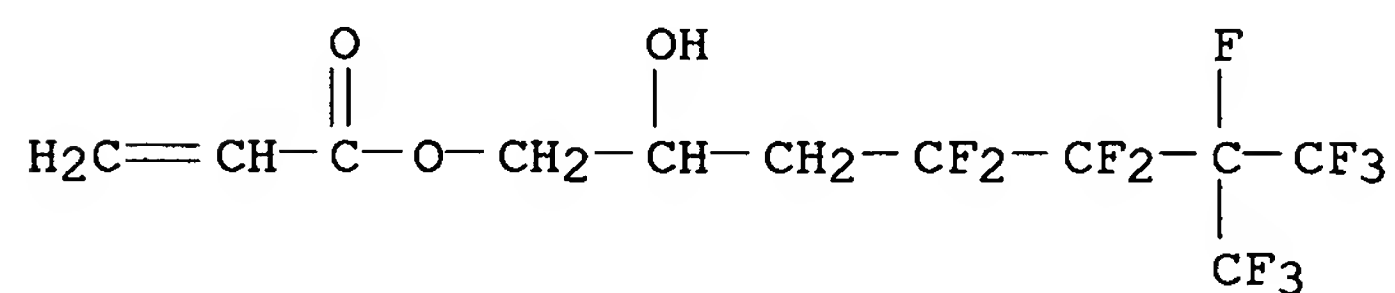
RN 910115-05-8 CAPLUS

CN 2-Propenoic acid, 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl ester, polymer with 2-propene-1-sulfonic acid (9CI) (CA INDEX NAME)

CM 1

CRN 16083-76-4

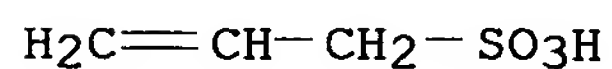
CMF C11 H9 F11 O3



CM 2

CRN 1606-80-0

CMF C3 H6 O3 S

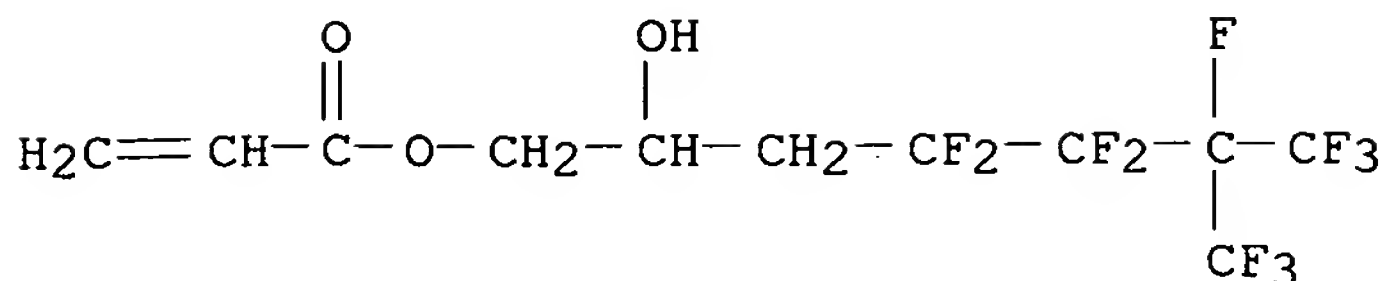


RN 910115-06-9 CAPLUS

CN 2-Propenoic acid, 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl ester, polymer with ethenesulfonic acid (9CI) (CA INDEX NAME)

CM 1

CRN 16083-76-4
CMF C11 H9 F11 O3



CM 2

CRN 1184-84-5
CMF C2 H4 O3 S



L4 ANSWER 8 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:792961 CAPLUS
DOCUMENT NUMBER: 145:231510
TITLE: Curable composition and optical member
obtained by curing same
INVENTOR(S): Tanaka, Yoshito; Komatsu, Yuzo; Ando, Yoshito
PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 191pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--|----------|------------------|----------|
| WO 2006082845 | A1 | 20060810 | WO 2006-JP301652 | 20060201 |
| W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |

PRIORITY APPLN. INFO.: JP 2005-29490 A 20050204
JP 2005-148260 A 20050520

AB Disclosed is a curable composition containing a multifunctional F-containing compound of

R[AO(C:O)CX:CH₂]_n (X = H, CH₃, F, Cl, CF₃; n = 2-7; A = direct bond, C1-50 linking groups; R = C1-50 organic groups having valency of n) (I), and a curing initiator. The compound I is also characterized in that (1) the F content thereof is not less than 40%, (2) the viscosity at 35° is not more than 100,000 mPa·s, and (3) a cured product thereof has a glass transition temperature of not less than 70°. This curable composition enables to obtain an optical member such as an optical waveguide with high

F content which has high heat resistance and high transparency without using a solvent. In an example a compound I was prepared from 1,3-bis(1,1,1,3,3,3-hexafluoro-2-hydroxypropyl)benzene and 3-perfluorohexyl-1,2-epoxypropane using benzyltrimethylammonium chloride as catalyst and by conversion of the resulting ring-opening compound to a diacrylate ester using α -fluoroacryloyl chloride.

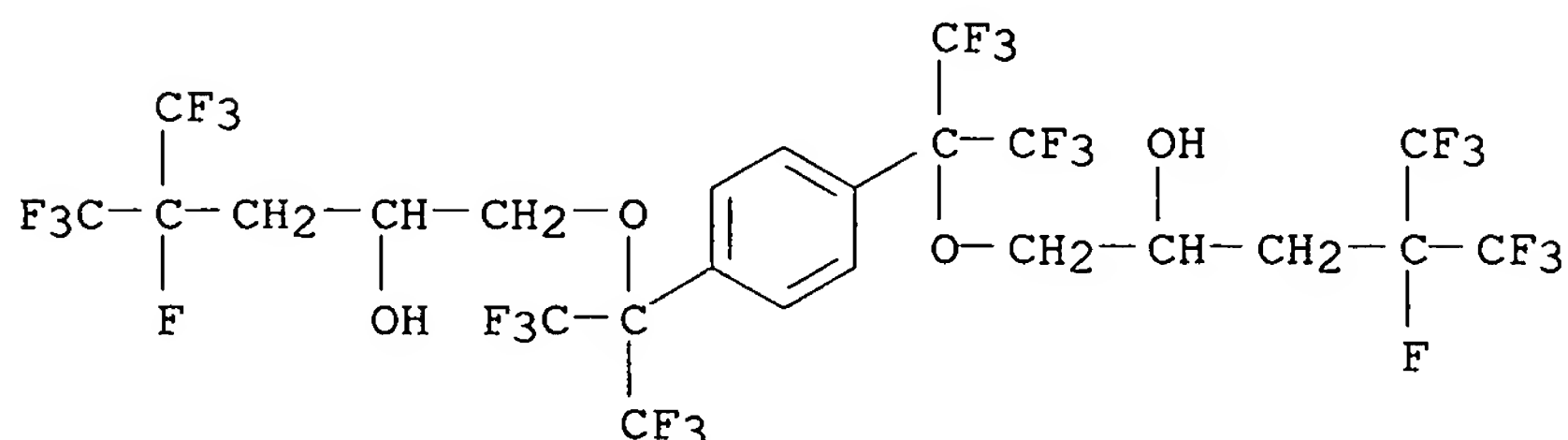
IT 905729-38-6P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; manufacture of curable polyacrylated compds. and compns. for optical members)

RN 905729-38-6 CAPLUS

CN 2-Pentanol, 1,1'-[1,4-phenylenebis[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]oxy]]bis[4,5,5,5-tetrafluoro-4-(trifluoromethyl)- (CA INDEX NAME)



IT 905729-46-6P 905729-53-5P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(manufacture of curable polyacrylated compds. and compns. for optical members)

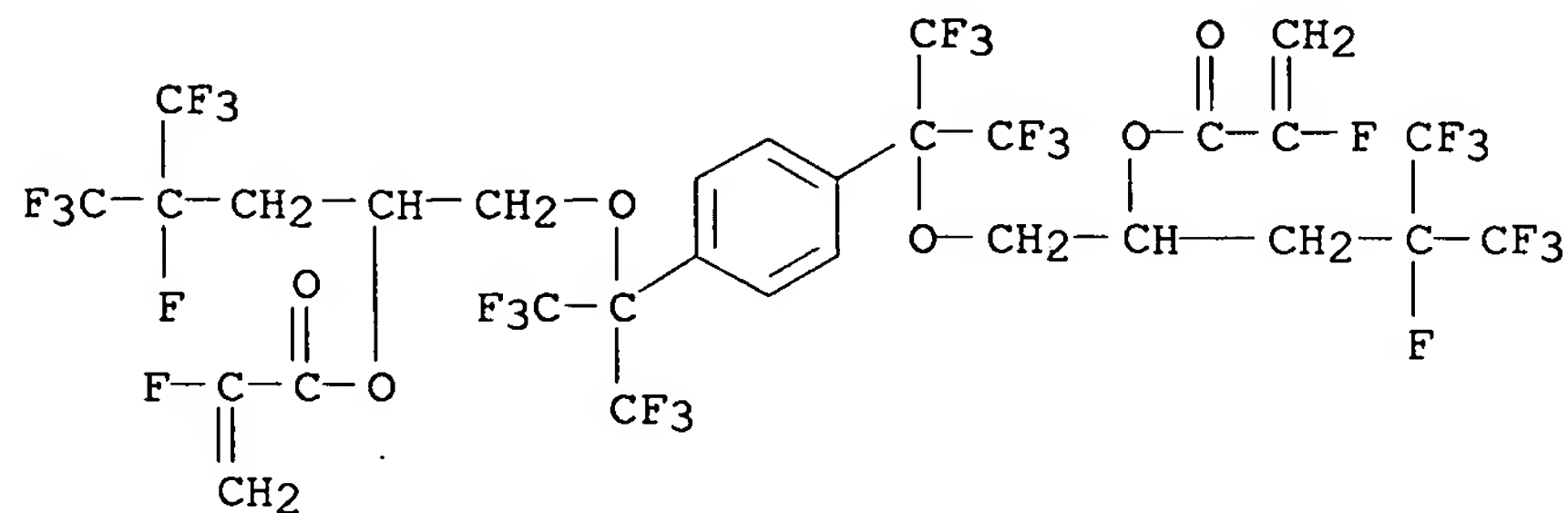
RN 905729-46-6 CAPLUS

CN 2-Propenoic acid, 2-fluoro-, 1,4-phenylenebis[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]oxy[1-[2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-2,1-ethanediyl]] ester, polymer with 3,3,3-trifluoro-2-methyl-2-(trifluoromethyl)propyl 2-fluoro-2-propenoate and 2,2,2-trifluoro-1-(trifluoromethyl)ethyl 2-fluoro-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 905729-39-7

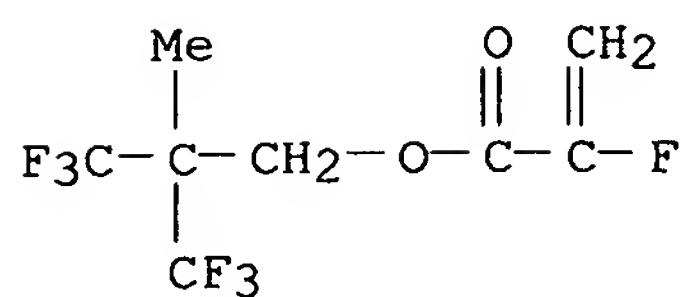
CMF C30 H18 F28 O6



CM 2

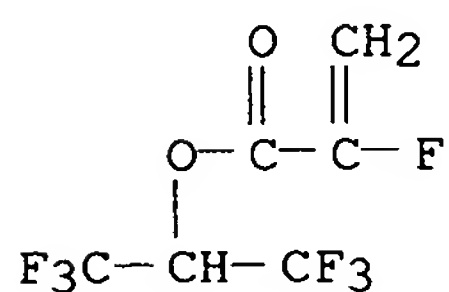
CRN 123450-11-3

CMF C8 H7 F7 O2



CM 3

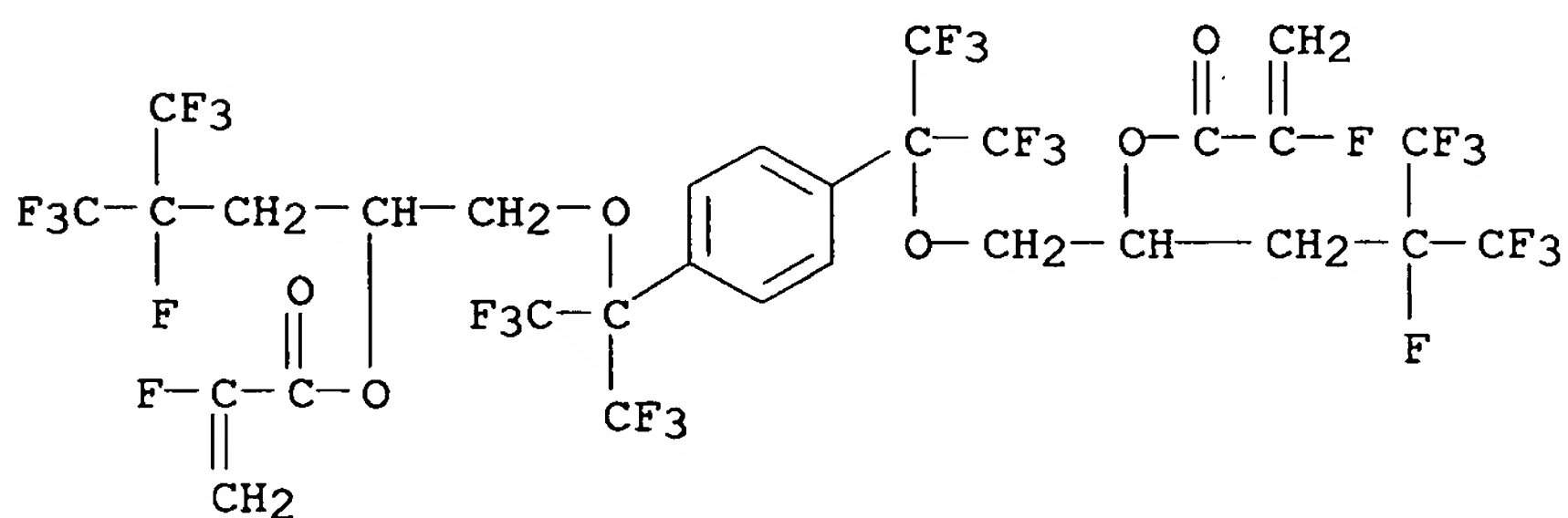
CRN 74359-06-1
CMF C6 H3 F7 O2



RN 905729-53-5 CAPLUS
CN 2-Propenoic acid, 2-fluoro-, 1,1'-[1,4-phenylenebis[[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]oxy[1-[2,3,3,3-tetrafluoro-2-(trifluoromethyl)propyl]-2,1-ethanediyl]]] ester, polymer with 3,3,3-trifluoro-2-methyl-2-(trifluoromethyl)propyl 2-fluoro-2-propenoate (CA INDEX NAME)

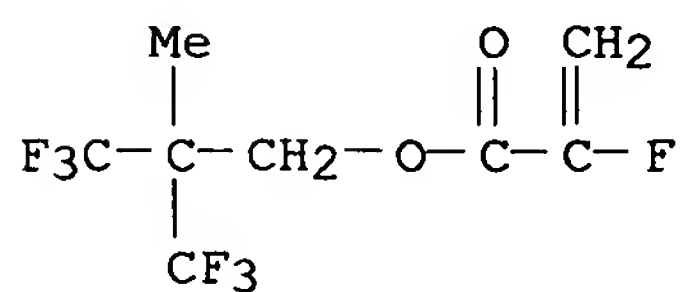
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CRN 905729-39-7
CMF C30 H18 F28 O6

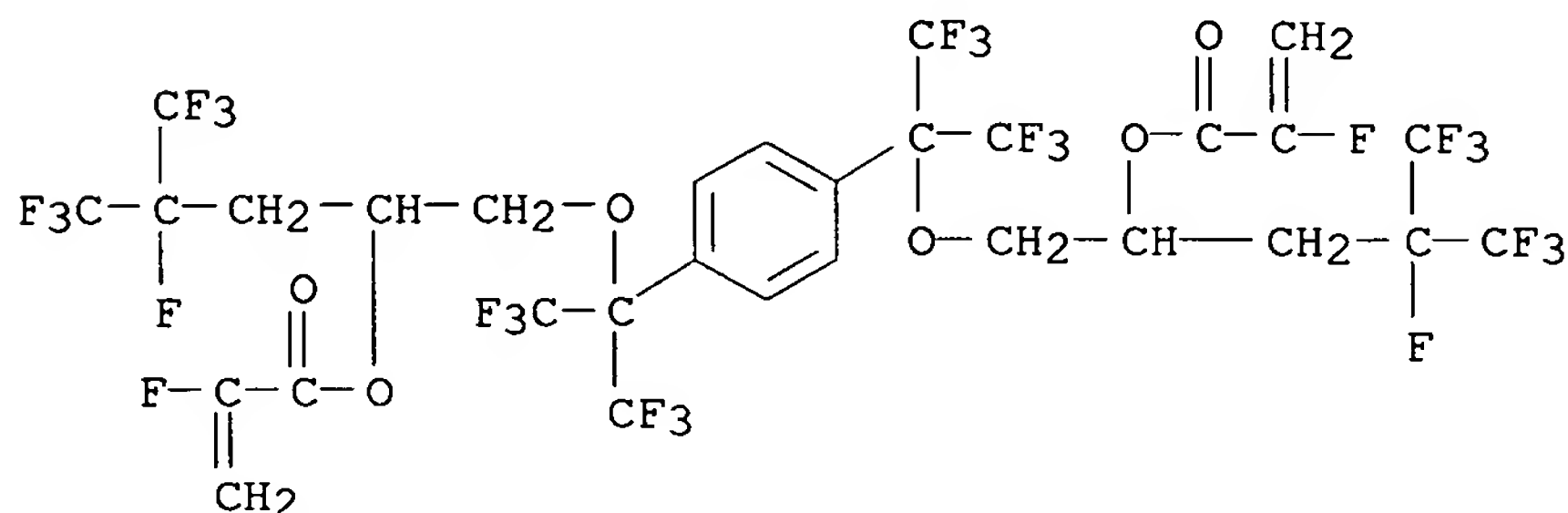


CM 2

CRN 123450-11-3
CMF C8 H7 F7 O2



IT 905729-39-7P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
 (Reactant or reagent)
 (monomer; manufacture of curable polyacrylated compds. and compns. for
 optical members)
 RN 905729-39-7 CAPLUS
 CN 2-Propenoic acid, 2-fluoro-, 1,4-phenylenebis[[2,2,2-trifluoro-1-
 (trifluoromethyl)ethylidene]oxy[1-[2,3,3,3-tetrafluoro-2-
 (trifluoromethyl)propyl]-2,1-ethanediyl]] ester (CA INDEX NAME)



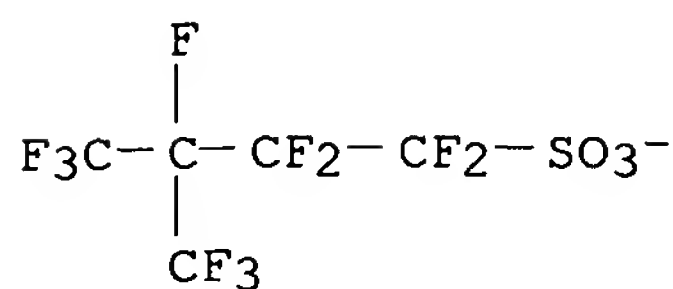
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:705925 CAPLUS
 DOCUMENT NUMBER: 145:146633
 TITLE: Flame-resistant thermoplastic resin
 composition with good heat resistance and
 mechanical strength
 INVENTOR(S): Jung, Han Su; Yang, Sam Ju
 PATENT ASSIGNEE(S): Cheil Industries Inc., S. Korea
 SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given
 CODEN: KRXXA7
 DOCUMENT TYPE: Patent
 LANGUAGE: Korean
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| KR 2004035980 | A | 20040430 | KR 2002-62363 | 20021014 |
| PRIORITY APPLN. INFO.: | | | KR 2002-62363 | 20021014 |

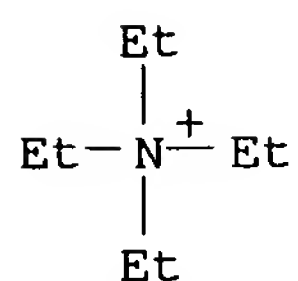
AB Title thermoplastic composition comprises (A) a polycarbonate resin 100, (B) a
 perfluoroalkane sulfonate selected from a sodium salt or a potassium salt
 of perfluoromethanesulfonic acid, perfluoroethanesulfonic acid, .
 perfluoropropanesulfonic acid, perfluorobutanesulfonic acid,
 perfluoromethylbutanesulfonic acid, perfluorohexanesulfonic acid,
 perfluoroheptanesulfonic acid, and perfluorooctanesulfonic acid,
 tetraethylammonium perfluorobutane sulfonate, and tetraethylammonium
 perfluoromethylbutanesulfonate 0.01-1.0, and (C) a glass fiber 5-15 parts.
 IT 25628-24-4 898828-99-4D, salts
 RL: MOA (Modifier or additive use); USES (Uses)
 (flame retardant; flame-resistant thermoplastic resin composition with good
 heat resistance and mech. strength)
 RN 25628-24-4 CAPLUS
 CN Ethanaminium, N,N,N-triethyl-, salt with 1,1,2,2,3,4,4,4-octafluoro-3-
 (trifluoromethyl)-1-butanefulfonic acid (1:1) (9CI) (CA INDEX NAME)

CRN 45240-76-4
CMF C5 F11 O3 S

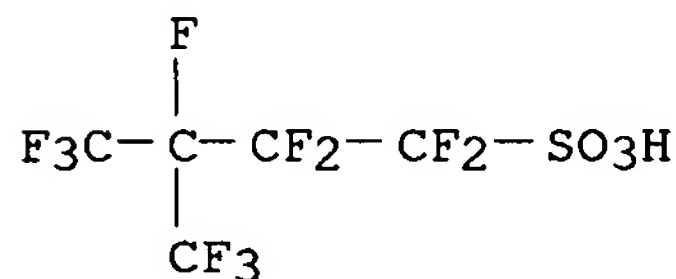


CM 2

CRN 66-40-0
CMF C8 H20 N



RN 898828-99-4 CAPLUS
CN 1-Butanesulfonic acid, 1,1,2,2,3,4,4,4-octafluoro-3-(trifluoromethyl)-
(CA INDEX NAME)



L4 ANSWER 10 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:558744 CAPLUS

DOCUMENT NUMBER: 145:37471

TITLE: Alignment film composition, its manufacture,
and liquid crystal display element

INVENTOR(S): Nakano, Keiko; Yamada, Masahiro; Katsumura, Nobuhito;
Inoue, Takashi

PATENT ASSIGNEE(S): Hitachi Displays Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

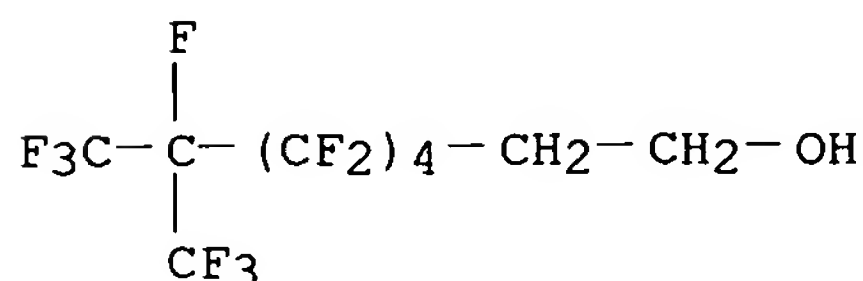
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------------------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| JP 2006154158 | A | 20060615 | JP 2004-343285 | 20041129 |
| PRIORITY APPLN. INFO.: | | | JP 2004-343285 | 20041129 |
| OTHER SOURCE(S): | MARPAT 145:37471 | | | |

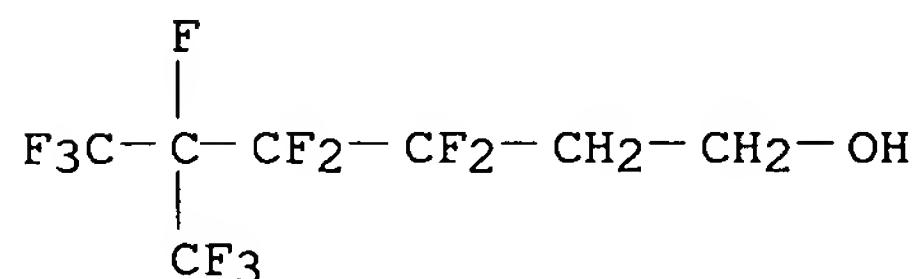
AB The composition comprises polyamic acid containing ≥ 1 solvent selected from R1CO2R2 and R3R4OH (R1 = C3-8 fluoroalkyl; R2 = Me, Et; R3 = C5-8 fluoroalkyl; R4 = C2-3 alkylene) at 0.5-25.0 weight%. The liquid crystal display has the alignment film manufactured by using the above composition Alternatively, the alignment film is manufactured by using a polyamic acid

composition containing a solvent with surface tension (15-30) + 10-5 N·m at 0.5-25.0 weight%. The composition shows good printability and the alignment film with high smoothness is obtained.

IT 20015-46-7, 2-(Perfluoro-5-methylhexyl)ethanol 89076-11-9
, 2-(Perfluoro-3-methylbutyl)ethanol
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(liquid crystal display with alignment film formed by coating polyamic acid composition containing low surface tension solvent)
RN 20015-46-7 CAPLUS
CN 1-Octanol, 3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)- (CA INDEX NAME)



RN 89076-11-9 CAPLUS
CN 1-Hexanol, 3,3,4,4,5,6,6,6-octafluoro-5-(trifluoromethyl)- (CA INDEX NAME)



L4 ANSWER 11 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:73375 CAPLUS
DOCUMENT NUMBER: 144:160275
TITLE: Photosensitive composition and method of forming pattern using the same
INVENTOR(S): Kanda, Hiromi; Sato, Kenichiro
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 67 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

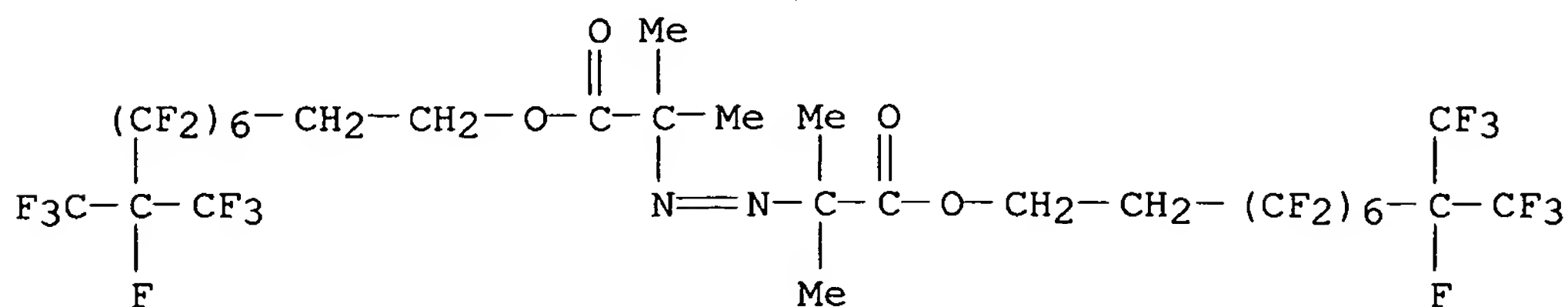
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| JP 2006023692 | A | 20060126 | JP 2004-235796 | 20040813 |

PRIORITY APPLN. INFO.: JP 2004-171210 A 20040609

AB Disclosed is a photosensitive composition comprising (a) an alkali soluble resin
having an aliphatic ring. and a lactone ring and having a terminal group R1R2R3C- (R1 = halo, halo-substituted hydrocarbon; and R2,3 = H, halo, hydrocarbon) and (b) a photoacid. The photosensitive composition exhibited excellent storage stability.

IT 873934-54-4D, reaction product with α-hydroxy-γ-butyrolactone methacrylate and 2-Methyl-2-adamantyl methacrylate
RL: CAT (Catalyst use); USES (Uses)
(Photosensitive composition containing alkali soluble resin)
RN 873934-54-4 CAPLUS

CN Propanoic acid, 2,2'-azobis[2-methyl-, bis[3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl] ester (9CI) (CA INDEX NAME)



IT 873934-52-2P

RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PRP (Properties); PREP (Preparation); USES (Uses)
(Photosensitive composition containing alkali soluble resin)

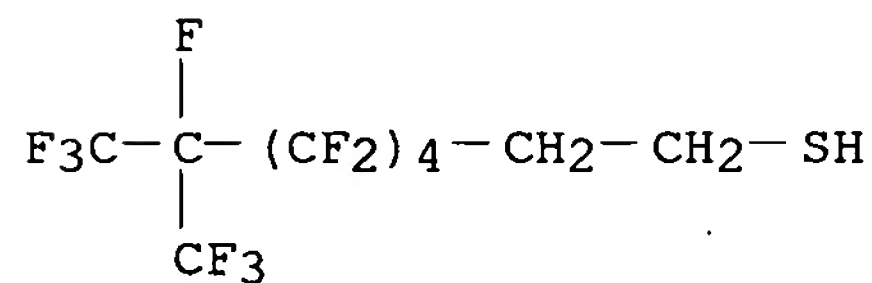
RN 873934-52-2 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-methyltricyclo[3.3.1.1^{3,7}]dec-2-yl ester, telomer with 3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)-1-octanethiol and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 40136-45-6

CMF C9 H5 F15 S



CM 2

CRN 195000-67-0

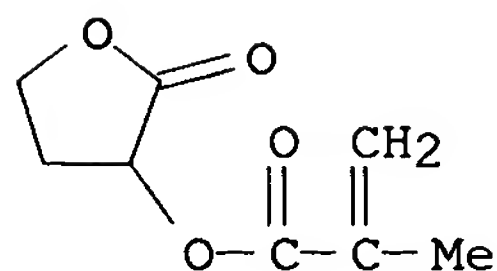
CMF (C15 H22 O2 . C8 H10 O4) x

CCI PMS

CM 3

CRN 195000-66-9

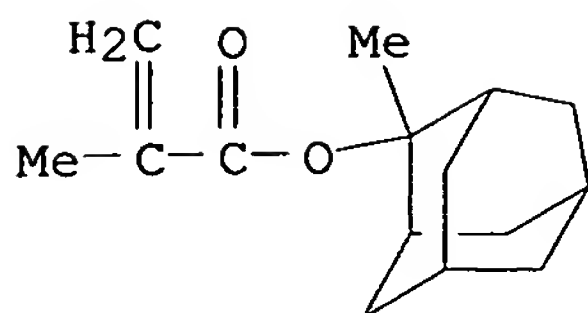
CMF C8 H10 O4



CM 4

CRN 177080-67-0

CMF C15 H22 O2



L4 ANSWER 12 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:20985 CAPLUS

DOCUMENT NUMBER: 138:98193

TITLE: Positive resist composition

INVENTOR(S): Mizutani, Kazuyoshi; Kanna, Shinichi

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 93 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|------------------|----------|
| EP 1273969 | A2 | 20030108 | EP 2002-14079 | 20020701 |
| EP 1273969 | A3 | 20031022 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | | |
| JP 2003015297 | A | 20030115 | JP 2001-202240 | 20010703 |
| JP 2003015299 | A | 20030115 | JP 2001-202242 | 20010703 |
| JP 2003015300 | A | 20030115 | JP 2001-202243 | 20010703 |
| TW 269117 | B | 20061221 | TW 2002-91114501 | 20020701 |
| US 2003134224 | A1 | 20030717 | US 2002-187291 | 20020702 |
| US 6878502 | B2 | 20050412 | | |

PRIORITY APPLN. INFO.:

| | | |
|----------------|---|----------|
| JP 2001-202240 | A | 20010703 |
| JP 2001-202242 | A | 20010703 |
| JP 2001-202243 | A | 20010703 |

AB A pos. resist composition comprises (A) a resin which comprises a specified repeating units and (B) a compound capable of generating an acid upon irradiation with one of an actinic ray and a radiation. The present invention relates to a pos. resist composition capable of forming fine patterns with use of a vacuum UV ray having a wavelength ≤ 160 nm.

IT 483348-90-9P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(pos. resist composition for vacuum UV photolithog. containing)

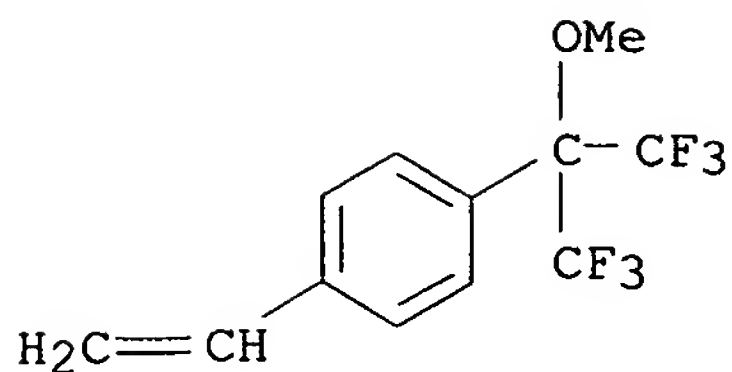
RN 483348-90-9 CAPLUS

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl ester, polymer with 4-ethenyl- α,α -bis(trifluoromethyl)benzenemethanol and 1-ethenyl-4-[2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]benzene (9CI) (CA INDEX NAME)

CM 1

CRN 483348-89-6

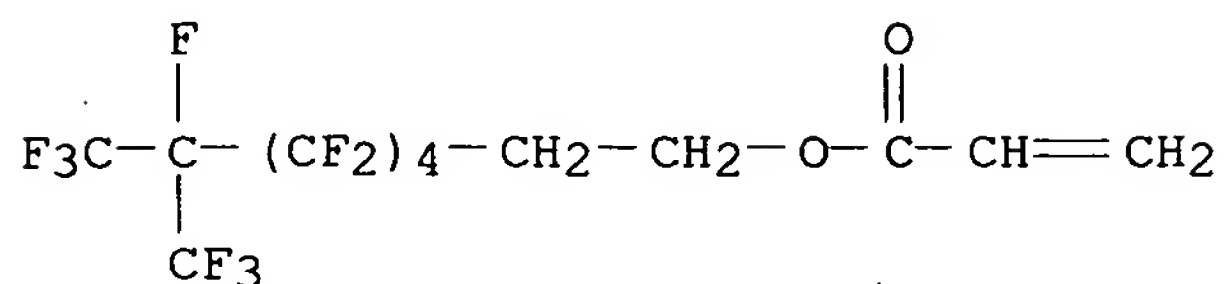
CMF C12 H10 F6 O



CM 2

CRN 50836-65-2

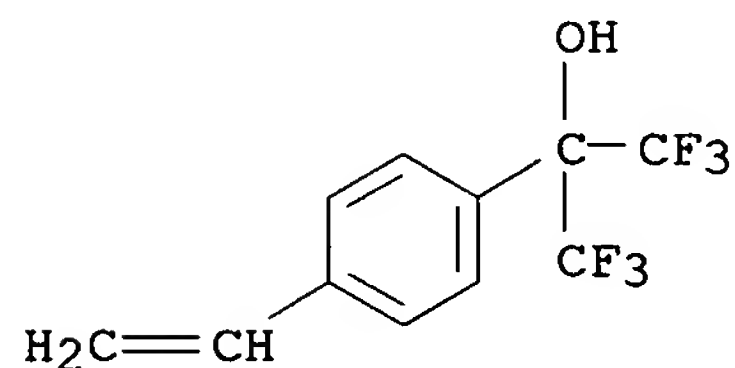
CMF C12 H7 F15 O2



CM 3

CRN 2386-82-5

CMF C11 H8 F6 O



L4 ANSWER 13 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:816516 CAPLUS

DOCUMENT NUMBER: 135:359862

TITLE: Composition of fire-extinguishing agent for fires of solvents

INVENTOR(S): Tanaka, Kazunori; Nagao, Kenji; Hashimoto, Yutaka

PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan

SOURCE: PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------------|------|----------|-----------------|----------|
| WO 2001083037 | A1 | 20011108 | WO 2001-JP3608 | 20010426 |
| W: KR, US | | | | |
| RW: AT, BE, CH, PT, SE, TR | | | | |
| JP 2001314525 | A | 20011113 | JP 2000-133406 | 20000502 |
| EP 1287855 | A1 | 20030305 | EP 2001-925941 | 20010426 |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 KR 777764 B1 20071120 KR 2001-41641 20010711
 EP 1275417 A1 20030115 EP 2001-116661 20010713
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2003201419 A1 20031030 US 2002-257988 20021030
 PRIORITY APPLN. INFO.: JP 2000-133406 A 20000502
 WO 2001-JP3608 W 20010426

AB A fire-extinguishing agent is superior to conventional ones in rapidly
 extinguishing performance, flame resistance, liquid resistance, satisfactory
 stability to dilution and reignition prevention even in fires involving
 either a nonpolar solvent or a polar solvent. The fire-extinguishing
 chemical contains a cationic polyamine polymer (A), and a 50 weight% aqueous
 solution

of A has a viscosity of 10,000 to 30,000 mPa.s at 25°.

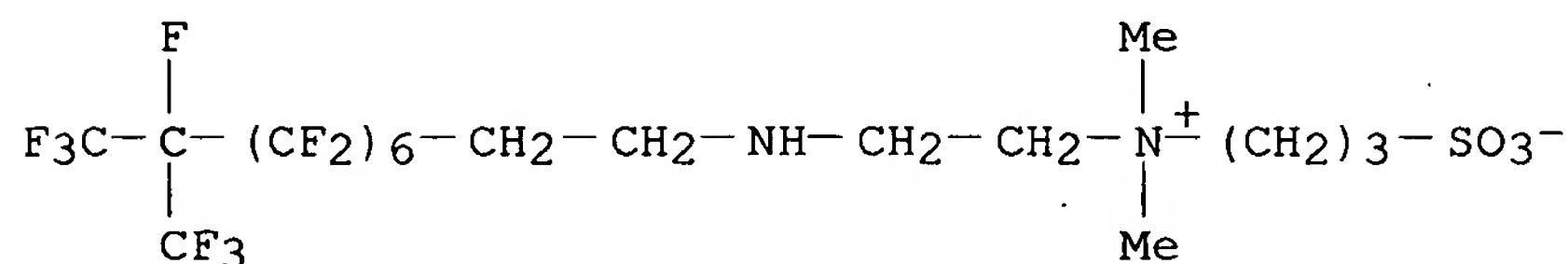
IT 364055-55-0

RL: MOA (Modifier or additive use); USES (Uses)

(in composition of fire-extinguishing agent for fires of solvents)

RN 364055-55-0 CAPLUS

CN 1-Propanaminium, N-[2-[[3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-
 9-(trifluoromethyl)decyl]amino]ethyl]-N,N-dimethyl-3-sulfo-, inner salt
 (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:336442 CAPLUS

DOCUMENT NUMBER: 134:346466

TITLE: Chemically amplified photoresist composition
 for semiconductor device fabrication

INVENTOR(S): Uetani, Yasunori; Hashimoto, Kazuhiko; Miya, Yoshiko;
 Inoue, Hiroki

PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan

SOURCE: Ger. Offen., 22 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|------------------|----------|
| DE 10054996 | A1 | 20010510 | DE 2000-10054996 | 20001107 |
| TW 527522 | B | 20030411 | TW 2000-89122717 | 20001027 |
| JP 2002006501 | A | 20020109 | JP 2000-332641 | 20001031 |
| GB 2356258 | A | 20010516 | GB 2000-27168 | 20001107 |
| GB 2356258 | B | 20011219 | | |

PRIORITY APPLN. INFO.: JP 1999-318116 A 19991109
 JP 2000-29156 A 20000207
 JP 2000-29159 A 20000207
 JP 2000-119397 A 20000420

AB The title chemical amplified photoresist composition includes a photosensitive
 compound containing a monomer unit of CH₂:C(CO₂R₁)Q [Q = H, Me,

C1-4-fluoroalkyl; R1 = C1-14-alkyl, alicycle, lactone]. The composition shows improved contrast with ≤ 170 nm exposure.

IT 337512-34-2P, 2-Methyladamantyl bicyclo[2.2.1]hept-5-en-2-carboxylate-maleic anhydride-3-(perfluoro-3-methylbutyl)-2-hydroxypropyl acrylate copolymer 337512-35-3P 337512-36-4P 337512-37-5P 337512-38-6P 337512-40-0P 337512-41-1P

RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(photosensitive compound in chemical amplified photoresist composition for semiconductor device fabrication)

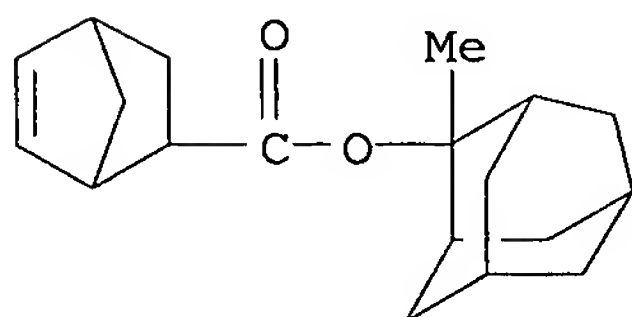
RN 337512-34-2 CAPLUS

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 2-methyltricyclo[3.3.1.1^{3,7}]dec-2-yl ester, polymer with 2,5-furandione and 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 328087-85-0

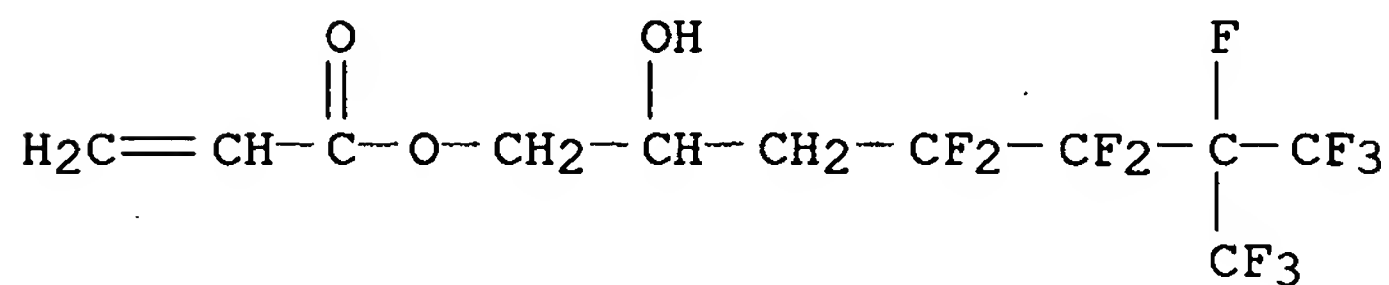
CMF C19 H26 O2



CM 2

CRN 16083-76-4

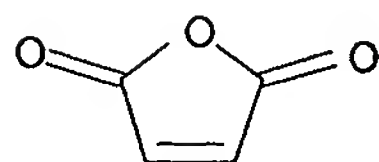
CMF C11 H9 F11 O3



CM 3

CRN 108-31-6

CMF C4 H2 O3



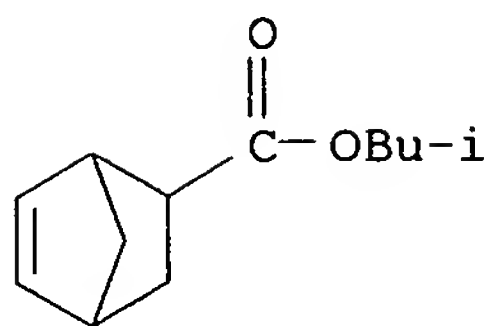
RN 337512-35-3 CAPLUS

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 2-methylpropyl ester, polymer with 2,5-furandione and 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 303154-49-6

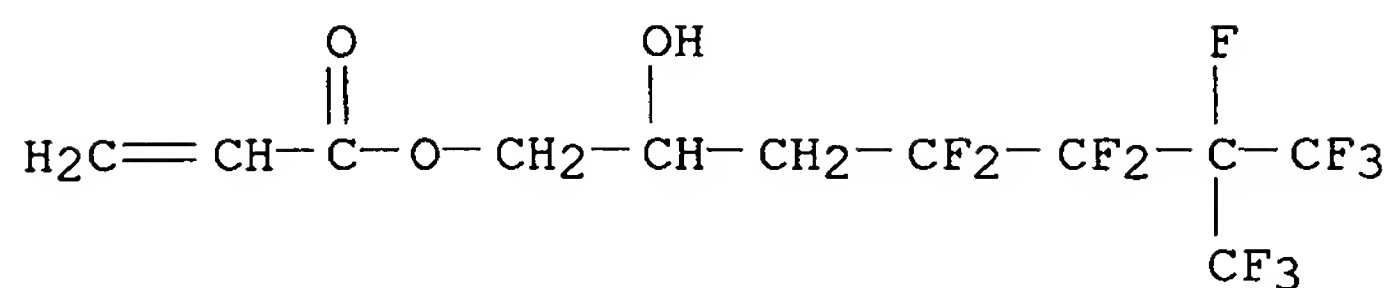
CMF C12 H18 O2



CM 2

CRN 16083-76-4

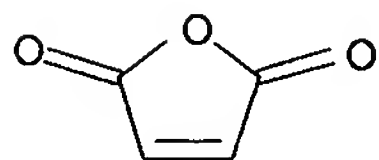
CMF C11 H9 F11 O3



CM 3

CRN 108-31-6

CMF C4 H2 O3



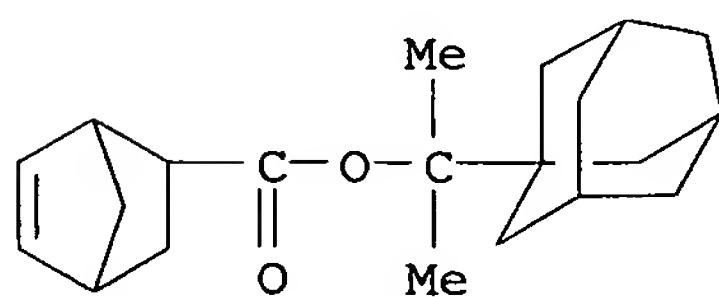
RN 337512-36-4 CAPLUS

CN Bicyclo[2.2.1]hept-5-ene-2-carboxylic acid, 1-methyl-1-tricyclo[3.3.1.1^{3,7}]dec-1-ylethyl ester, polymer with 2,5-furandione and 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 328087-76-9

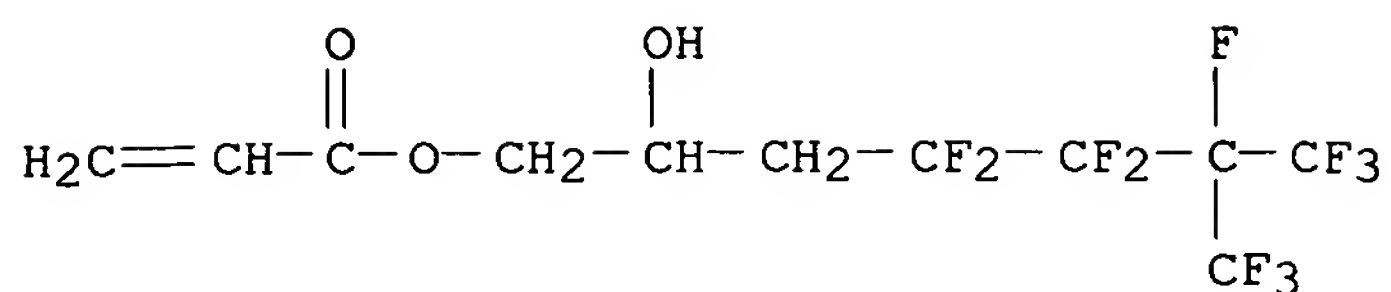
CMF C21 H30 O2



CM 2

CRN 16083-76-4

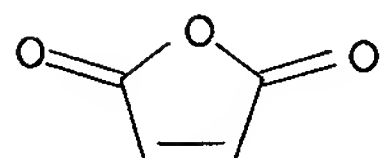
CMF C11 H9 F11 O3



CM 3

CRN 108-31-6

CMF C4 H2 O3



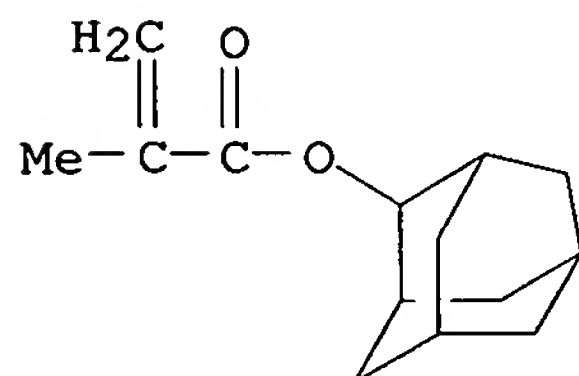
RN 337512-37-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, tricyclo[3.3.1.13,7]dec-2-yl ester, polymer with 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 133682-15-2

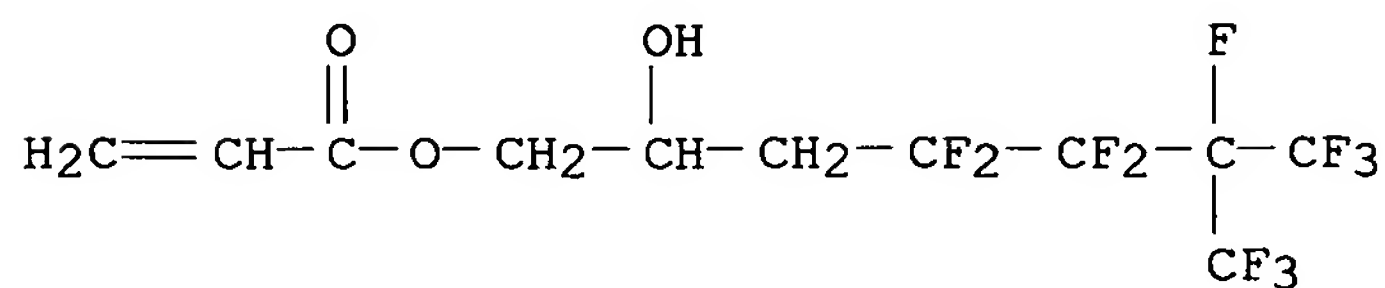
CMF C14 H20 O2



CM 2

CRN 16083-76-4

CMF C11 H9 F11 O3

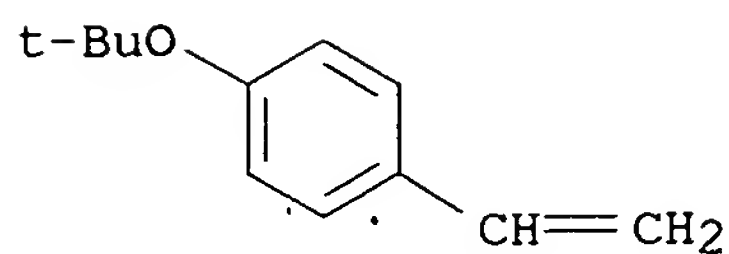


RN 337512-38-6 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl ester, polymer with 1-(1,1-dimethylethoxy)-4-ethenylbenzene (9CI) (CA INDEX NAME)

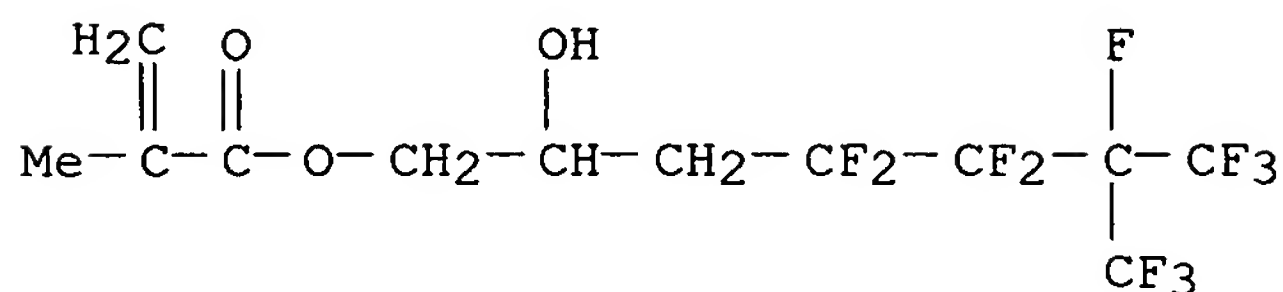
CM 1

CRN 95418-58-9
CMF C12 H16 O



CM 2

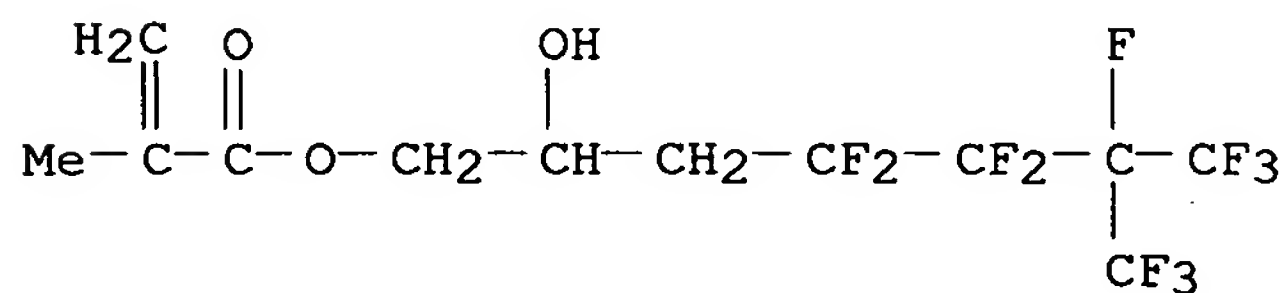
CRN 16083-79-7
CMF C12 H11 F11 O3



RN 337512-40-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl ester, polymer with 1,1-dimethylethyl 2-propenoate and 4-ethenylphenyl acetate (9CI) (CA INDEX NAME)

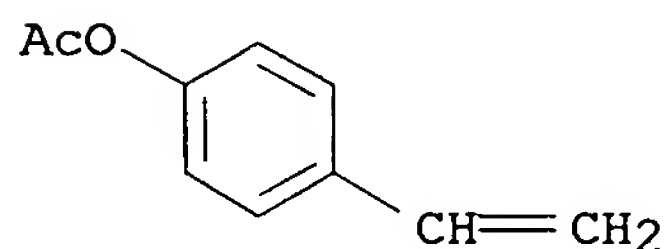
CM 1

CRN 16083-79-7
CMF C12 H11 F11 O3



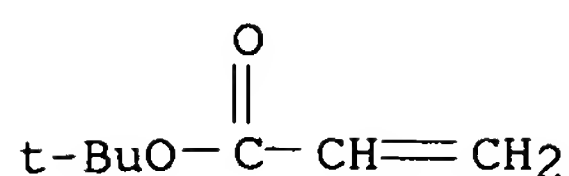
CM 2

CRN 2628-16-2
CMF C10 H10 O2



CM 3

CRN 1663-39-4
CMF C7 H12 O2



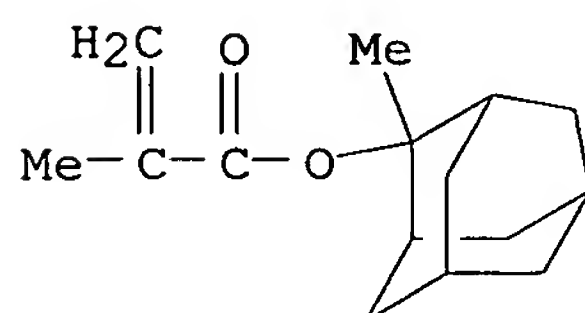
RN 337512-41-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-methyltricyclo[3.3.1.1^{3,7}]dec-2-yl ester, polymer with 4-ethenylphenyl acetate and 4,4,5,5,6,7,7,7-octafluoro-2-hydroxy-6-(trifluoromethyl)heptyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 177080-67-0

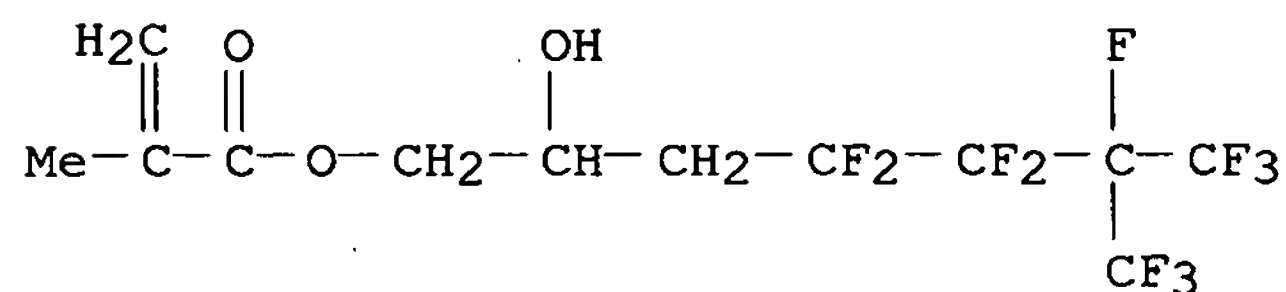
CMF C15 H22 O2



CM 2

CRN 16083-79-7

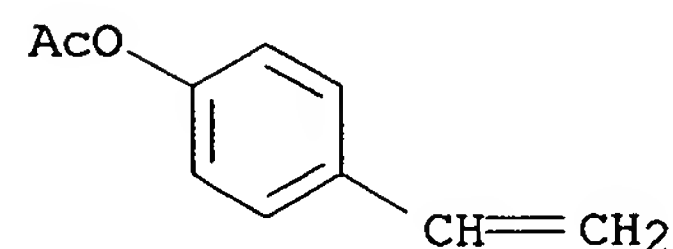
CMF C12 H11 F11 O3



CM 3

CRN 2628-16-2

CMF C10 H10 O2



L4 ANSWER 15 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:210141 CAPLUS

DOCUMENT NUMBER: 134:259162

TITLE: Resin composition for electrophotographic toner and toner using it

INVENTOR(S): Utakewa, Reiko

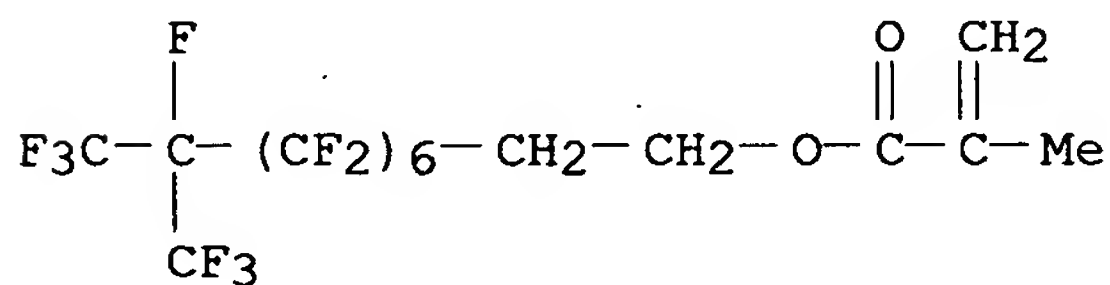
PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

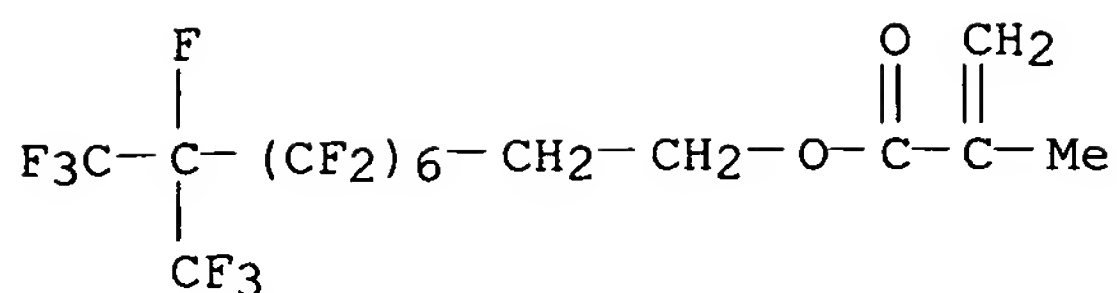
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|--|----------|-----------------|----------|
| JP 2001075310 | A | 20010323 | JP 1999-288609 | 19990902 |
| PRIORITY APPLN. INFO.: | | | JP 1999-288609 | 19990902 |
| AB The resin composition contains a F-containing acrylate polymer [CH ₂ CR(CO ₂ Rf)] _p [I; | | | | |
| R = H, Me, F, CF ₃ ; Rf = (CH ₂) _m (CF ₂ CF ₂) _n CF ₃ , (CH ₂) _m (CF ₂ CF ₂) _n CF ₂ CF ₃ , CH ₂ (CF ₂ CF ₂) _n H, CH ₂ CF ₂ CHF ₂ CF ₃ , CH ₂ (CF ₂ CF ₂) _n Cl, (CH ₂) _m (CF ₂ CF ₂) _n CF(CF ₃) ₂ , CH(CF ₃) ₂ , CF(CF ₃) ₂ , C(CF ₃) ₃ , CH ₂ CMe(CF ₃) ₂ , CH ₂ CF(CF ₃)[CF(CF ₃)CF ₂ O] _n OC ₃ F ₇ , (CH ₂) _m (CF ₂ CF ₂) _n (CH ₂) _m OH; m = 1-6,; n = 0-5], and the toner uses the composition | | | | |
| In the resin composition containing (1) a F-containing vinyl copolymer comprising | | | | |
| styrene-type monomer and the F-containing acrylate monomer I and (2) a low m.p. crystalline compound, F-containing vinyl copolymer comprises high and low mol. | | | | |
| weight copolymers and ≥1 of the vinyl copolymer has side chain forming aggregation with the crystalline compound The color toner comprises the F-containing | | | | |
| vinyl copolymer 100, rice wax 0.4-8, carnauba wax 0.1-2, and silicone oil 0.05-1 weight parts. The developer comprises the toner and a carrier. The toner shows low temperature fixation, antioffset and antiblocking properties, and gives images with high transparency and brightness. | | | | |
| IT | 29435-68-5P 330796-54-8P | | | |
| | RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) | | | |
| | (electrophotog. toner containing a fluorine-containing vinyl copolymer) | | | |
| RN | 29435-68-5 CAPLUS | | | |
| CN | 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl ester, homopolymer (9CI) (CA INDEX NAME) | | | |
| CM | 1 | | | |
| CRN | 15166-00-4 | | | |
| CMF | C15 H9 F19 O2 | | | |



RN 330796-54-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl ester, polymer with butyl 2-propenoate (9CI) (CA INDEX NAME)

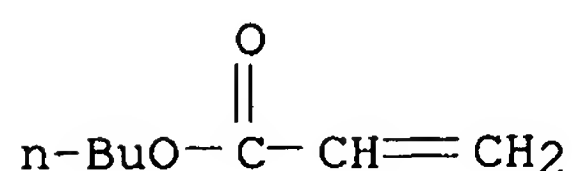
CM 1

CRN 15166-00-4
CMF C15 H9 F19 O2



CM 2

CRN 141-32-2
CMF C7 H12 O2



L4 ANSWER 16 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:756774 CAPLUS

DOCUMENT NUMBER: 133:322608

TITLE: Resin composition for biodegradable moldings, films or sheets with enhanced heat resistance and weatherability

INVENTOR(S): Satani, Shoichi; Nishikata, Akira; Okuno, Hirofumi; Hashimoto, Hideaki; Wada, Nobuaki; Sano, Shigeo; Voigt, Michael; Timmermann, Ralf; Schulz-Schlitte, Wolfgang

PATENT ASSIGNEE(S): C.I. Kasei Co. Ltd., Japan; Bayer Aktiengesellschaft

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2000063282 | A1 | 20001026 | WO 2000-EP3380 | 20000414 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| JP 2000355653 | A | 20001226 | JP 2000-82751 | 20000323 |
| JP 2000354427 | A | 20001226 | JP 2000-82752 | 20000323 |
| JP 2000355632 | A | 20001226 | JP 2000-82753 | 20000323 |
| JP 2001001474 | A | 20010109 | JP 2000-82754 | 20000323 |
| JP 2001000050 | A | 20010109 | JP 2000-82755 | 20000323 |
| JP 2000355652 | A | 20001226 | JP 2000-104307 | 20000406 |
| JP 2001000053 | A | 20010109 | JP 2000-104306 | 20000406 |
| EP 1173507 | A1 | 20020123 | EP 2000-925213 | 20000414 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |

PRIORITY APPLN. INFO.:

JP 1999-108682 A 19990416
JP 1999-108683 A 19990416

JP 1999-108684 A 19990416
 JP 1999-108685 A 19990416
 JP 1999-110230 A 19990419
 JP 1999-110231 A 19990419
 JP 1999-110232 A 19990419
 WO 2000-EP3380 W 20000414

AB A resin composition with controlled biodegradability comprises ≥ 1 of antioxidants, UV and visible light absorbers, quenchers of photochem. excited states and addnl. additives and ≥ 1 biodegradable polymer selected from aliphatic or aromatic-aliphatic (co)polyesters, aliphatic or partially

aromatic polyester-polyurethanes, aliphatic or aliphatic-aromatic polyester-polyamides, polysaccharide esters, polysaccharide ether esters, and moldings, films and sheets made therefrom have improved heat resistance and weather resistance when used in outdoor applications while maintaining excellent biodegradability and compostability. The products are especially useful as agricultural films. Thus, pellets made from a blend of an adipic acid-1,4-butanediol- ϵ -caprolactam copolymer (m.p. 137°) and 10 phr Super SS were extruded to form a 30- μ m film requiring 35 days to degrade, compared with 45 days when Super SS was not blended.

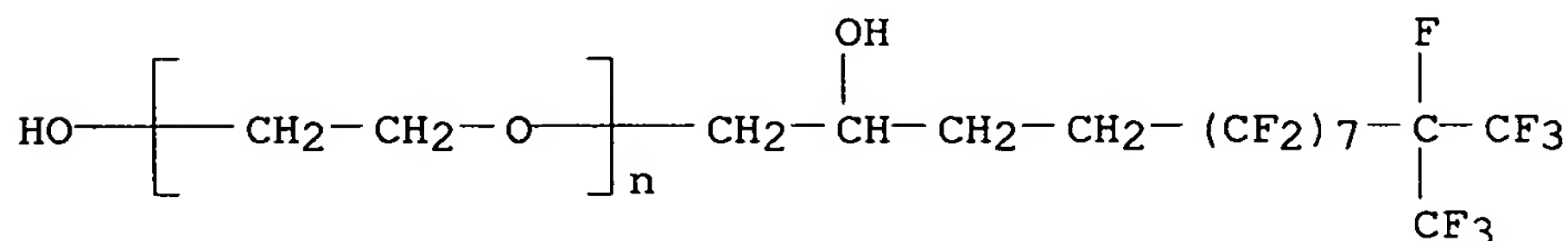
IT 148919-89-5, DS 403

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(in resin composition for biodegradable moldings, films or sheets with enhanced heat resistance and weatherability)

RN 148919-89-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-octadecafluoro-2-hydroxy-12-(trifluoromethyl)tridecyl]- ω -hydroxy- (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:608835 CAPLUS

DOCUMENT NUMBER: 133:209384

TITLE: Ceramer composition and composite comprising free radically curable fluorochemical component

INVENTOR(S): Kang, Soonkun; Moore, George G. I.; Rambosek, Thomas W.

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|---|----------|-----------------|----------|
| WO 2000050517 | A1 | 20000831 | WO 2000-US1071 | 20000118 |
| W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, | | | |

LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
 RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
 UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6238798 B1 20010529 US 1999-255195 19990222
 EP 1163298 A1 20011219 EP 2000-908289 20000118
 EP 1163298 B1 20051019
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 BR 2000008408 A 20020205 BR 2000-8408 20000118
 JP 2002537466 T 20021105 JP 2000-601085 20000118
 US 2002001710 A1 20020103 US 2001-821366 20010329
 US 6497961 B2 20021224

PRIORITY APPLN. INFO.:

US 1999-255195 A 19990222
 WO 2000-US1071 W 20000118

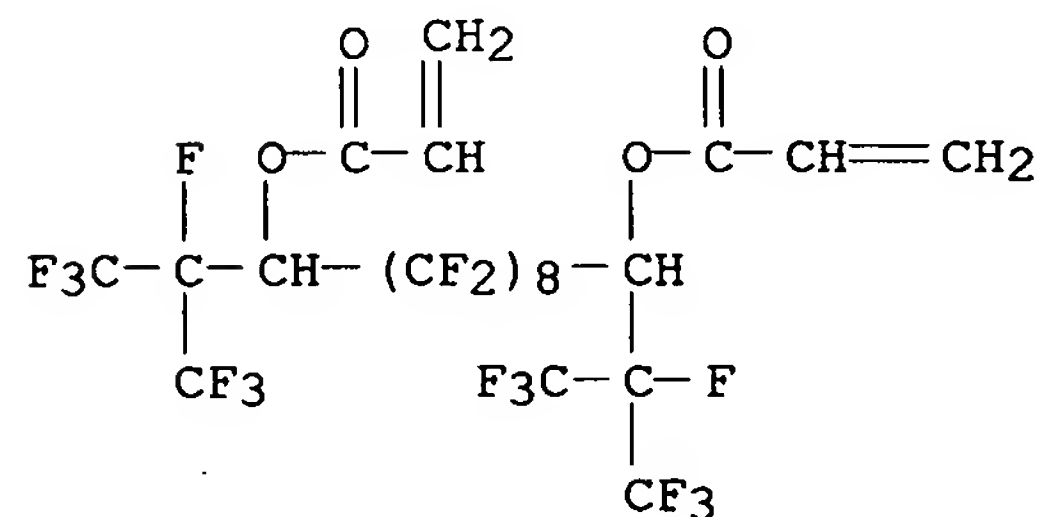
AB A ceramer composition is provided that comprises a plurality of colloidal inorg. oxide particles and a free-radically curable binder precursor. The free-radically curable binder precursor comprises a fluorochem. component that further comprises at least two free-radically curable moieties and at least one fluorinated moiety. By virtue of the inclusion of the fluorochem. component, the ceramer compns. of the present invention can be used to provide ceramer composites and ceramer composite structures with excellent stain, oil and/or water repellency characteristics as well as a high level of abrasion resistance and hardness.

IT 217825-94-0P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (ceramer composition and composite comprising free radically curable fluorochem. component)

RN 217825-94-0 CAPLUS

CN 2-Propenoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluoro-1,10-bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-1,10-decanediyl ester (9CI) (CA INDEX NAME)



IT 290293-49-1P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (ceramer composition and composite comprising free radically curable fluorochem. component)

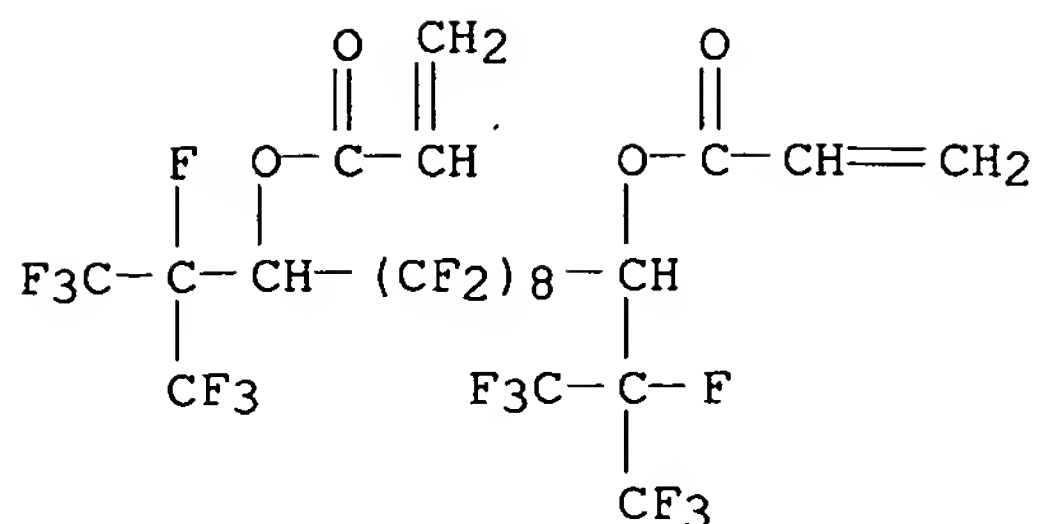
RN 290293-49-1 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluoro-1,10-bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-1,10-decanediyl di-2-propenoate and 2-(hydroxymethyl)-2-[[[1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 217825-94-0

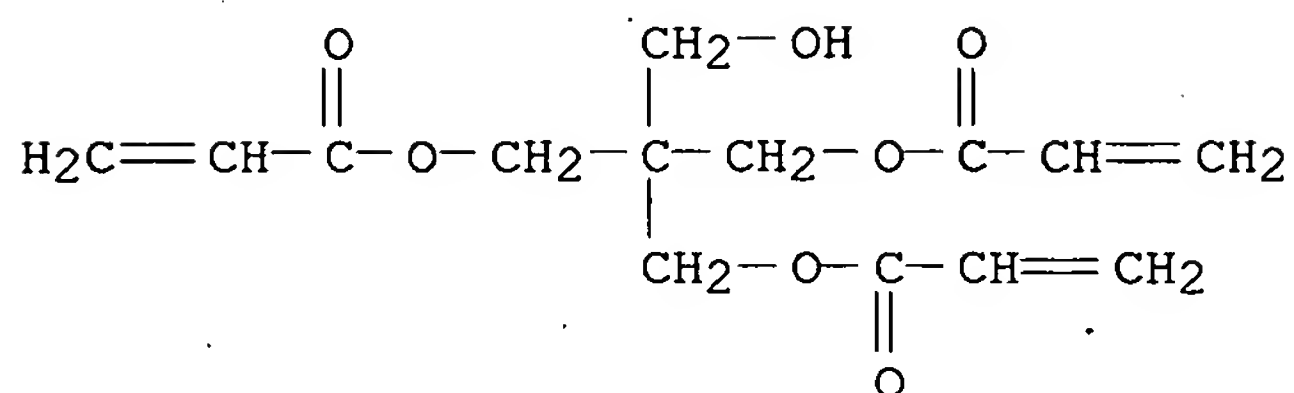
CMF C22 H8 F30 O4



CM 2

CRN 3524-68-3

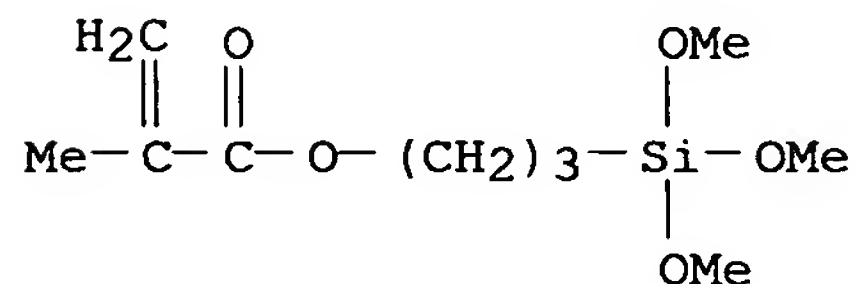
CMF C14 H18 O7



CM 3

CRN 2530-85-0

CMF C10 H20 O5 Si



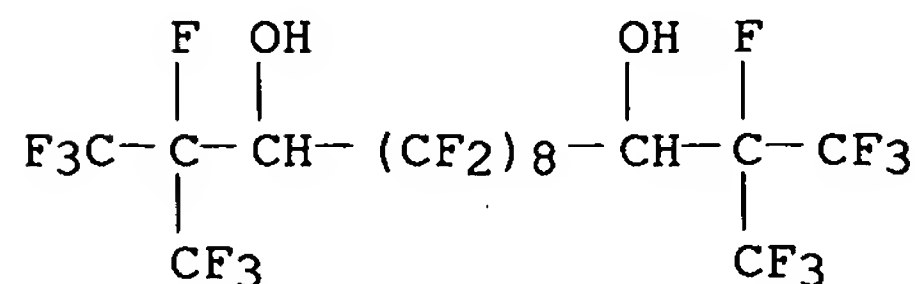
IT 290293-43-5P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(ceramer composition and composite comprising free radically curable fluorochem. component)

RN 290293-43-5 CAPLUS

CN 3,12-Tetradecanediol, 1,1,1,2,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,13,14,14,14-tetracosafuoro-2,13-bis(trifluoromethyl)- (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:198204 CAPLUS
 DOCUMENT NUMBER: 132:223891
 TITLE: Low-adhesive coating composition
 INVENTOR(S): Samukawa, Hiroshi
 PATENT ASSIGNEE(S): Sony Chemical Corp., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| JP 2000086996 | A | 20000328 | JP 1998-254349 | 19980908 |
| JP 3520775 | B2 | 20040419 | | |
| US 2003049441 | A1 | 20030313 | US 2000-497477 | 20000204 |
| US 6566439 | B2 | 20030520 | | |

PRIORITY APPLN. INFO.: JP 1998-254349 A 19980908

AB A non-silicone coating material, which has sufficient adhesion toward the substrate, but has less adhesive strength to an adhesive layer, comprises 33-99 weight% of a fluorine-containing acrylic polymer prepared mainly from C6-16

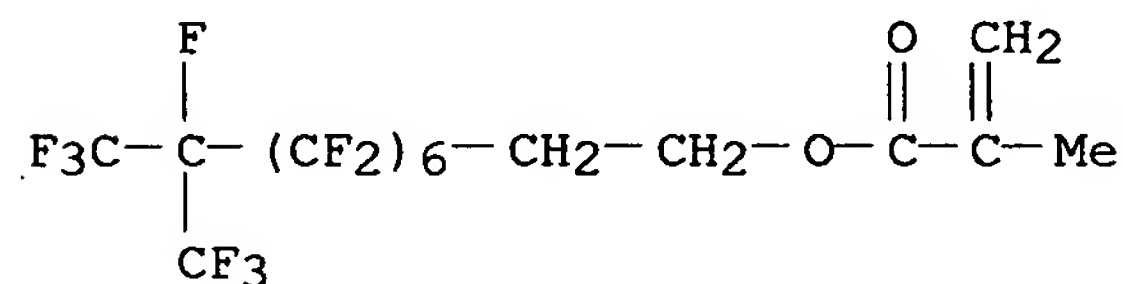
perfluoroalkyl (meth)acrylate monomers and 1-67 weight% of a fluorine-containing oil. An adhesive tape comprising a substrate having an adhesive layer on one side and a coating layer of the above composition on the other side is also claimed.

IT 29435-68-5P 154032-31-2P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (low-adhesive coating composition)

RN 29435-68-5 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

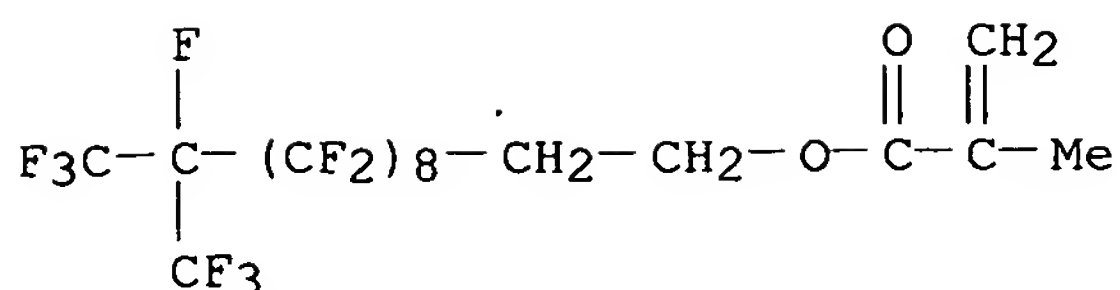
CRN 15166-00-4
 CMF C15 H9 F19 O2



RN 154032-31-2 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-eicosafluoro-11-(trifluoromethyl)dodecyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 74256-14-7
 CMF C17 H9 F23 O2



L4 ANSWER 19 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:597495 CAPLUS

DOCUMENT NUMBER: 131:215208

TITLE: Fluorine-containing epoxy resin composition,
and surface modification process, ink jet recording
head and ink jet recording apparatus using same

INVENTOR(S): Noguchi, Hiromichi; Shimomura, Akihiko; Imamura, Isao;
Sato, Tamaki

PATENT ASSIGNEE(S): Canon Kabushiki Kaisha, Japan

SOURCE: Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| EP 942026 | A2 | 19990915 | EP 1999-104674 | 19990309 |
| EP 942026 | A3 | 20020502 | | |
| EP 942026 | B1 | 20060222 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| US 6344526 | B1 | 20020205 | US 1999-263871 | 19990308 |
| ES 2256979 | T3 | 20060716 | ES 1999-104674 | 19990309 |
| JP 2000026575 | A | 20000125 | JP 1999-63177 | 19990310 |
| PRIORITY APPLN. INFO.: | | | JP 1998-57637 | A 19980310 |
| | | | JP 1998-57639 | A 19980310 |

AB A resin composition comprising a fluorine-containing aliphatic epoxy resin
having in

one mol. at least one perfluoroalkyl group having 6 to 12 carbon atoms and
at least two epoxy groups, a cationic polymerization catalyst, and optionally a
compatibilizing agent having an epoxy group and a fluoromethyl group is
applied to a discharge opening surface of an ink jet recording head,
followed by irradiation with an activation energy ray in a given pattern to
form a cured film in a desired pattern, so that the discharge opening
surface is endowed with ink repellency.

IT 242479-35-2

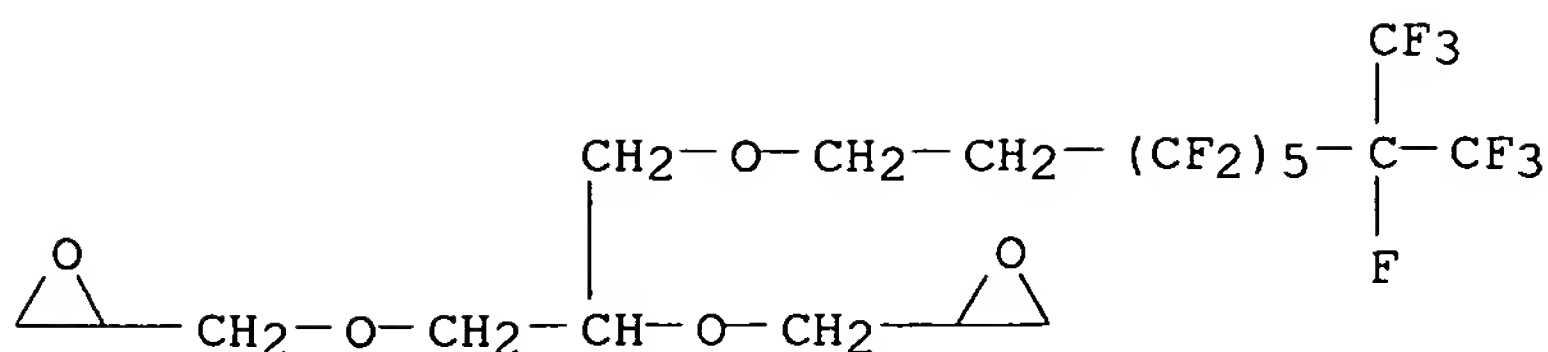
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)

(fluorine-containing epoxy resin composition, and surface modification
process,

ink jet recording head and ink jet recording apparatus using same)

RN 242479-35-2 CAPLUS

CN Oxirane, 2,2'-[[1-[[[3,3,4,4,5,5,6,6,7,7,8,9,9,9-tetradecafluoro-8-
(trifluoromethyl)nonyl]oxy)methyl]-1,2-ethanediyl]bis(oxymethylene)]bis-
(9CI) (CA INDEX NAME)



L4 ANSWER 20 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:597493 CAPLUS

DOCUMENT NUMBER: 131:200856

TITLE: Fluorine-containing epoxy resin composition
for use in ink jet recording head

INVENTOR(S): Noguchi, Hiromichi; Shimomura, Akihiko; Imamura, Isao;
Sato, Tamaki

PATENT ASSIGNEE(S): Canon Kabushiki Kaisha, Japan

SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| EP 942024 | A2 | 19990915 | EP 1999-104672 | 19990309 |
| EP 942024 | A3 | 20020502 | | |
| EP 942024 | B1 | 20061227 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| US 2002058210 | A1 | 20020516 | US 1999-263083 | 19990308 |
| US 6472129 | B2 | 20021029 | | |
| EP 1783153 | A2 | 20070509 | EP 2006-126803 | 19990309 |
| R: DE, ES, FR, GB, IT, NL | | | | |
| ES 2274593 | T3 | 20070516 | ES 1999-104672 | 19990309 |
| JP 11322896 | A | 19991126 | JP 1999-63178 | 19990310 |

PRIORITY APPLN. INFO.:

JP 1998-57638 A 19980310
EP 1999-104672 A3 19990309

AB The title resin composition comprises a F-containing epoxy resin having ≥ 1 perfluoroalkyl group with 6-12 carbon atoms and ≥ 2 alicyclic epoxy groups, along with a cationic polymerization catalyst.

IT 241825-47-8 241825-52-5 242146-33-4

RL: TEM (Technical or engineered material use); USES (Uses)

(Fluorine-containing epoxy resin composition for use in ink jet recording head)

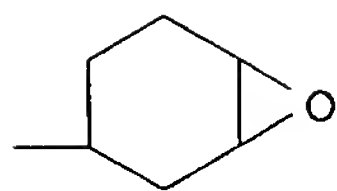
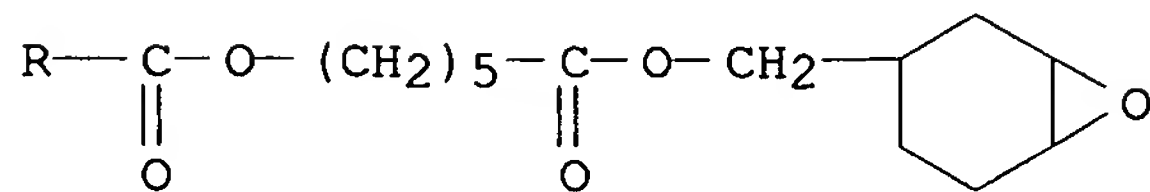
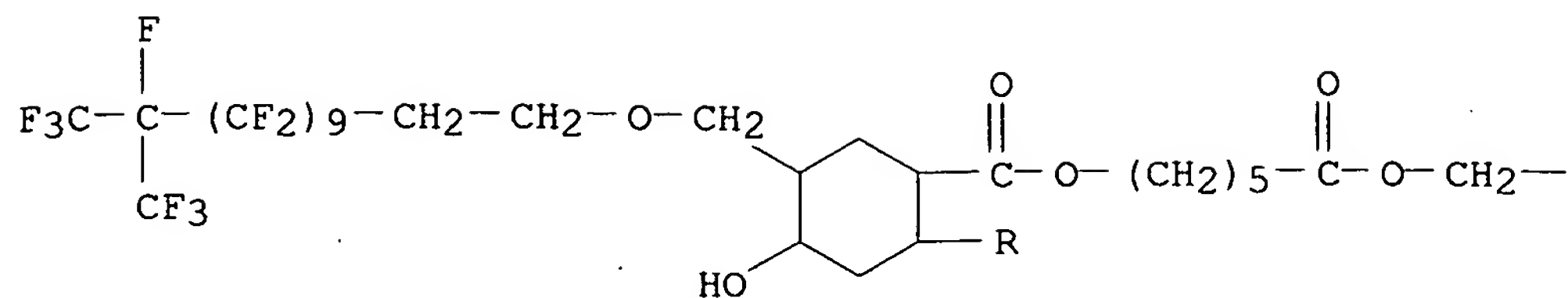
RN 241825-47-8 CAPLUS

CN 1,2-Cyclohexanedicarboxylic acid, 4-[[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-docosafluoro-12-(trifluoromethyl)tridecyl]oxy]methyl]-5-hydroxy-, bis[6-(7-oxabicyclo[4.1.0]hept-3-ylmethoxy)-6-oxohexyl] ester, polymer with 3-ethenyl-7-oxabicyclo[4.1.0]heptane and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluoro-1-decene (9CI) (CA INDEX NAME)

CM 1

CRN 241825-46-7

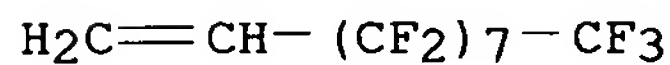
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CM 2

CRN 21652-58-4

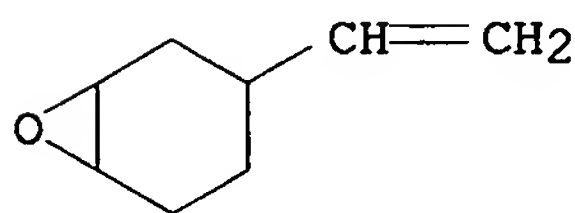
CMF C10 H3 F17



CM 3

CRN 106-86-5

CMF C8 H12 O



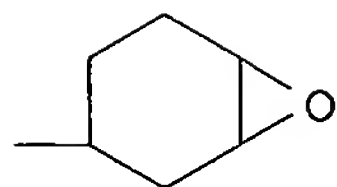
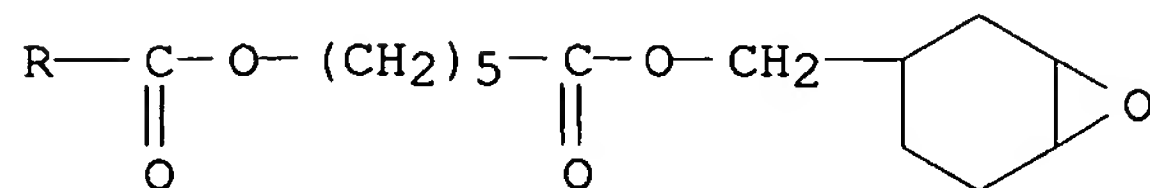
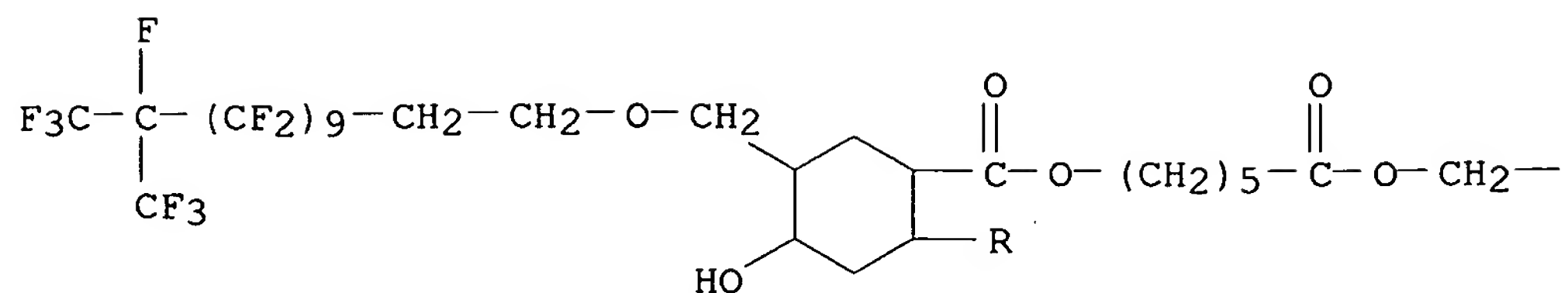
RN 241825-52-5 CAPLUS

CN 1,2-Cyclohexanedicarboxylic acid, 4-[[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-docosafluoro-12-(trifluoromethyl)tridecyl]oxy]methyl]-5-hydroxy-, bis[6-(7-oxabicyclo[4.1.0]hept-3-ylmethoxy)-6-oxohexyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 241825-46-7

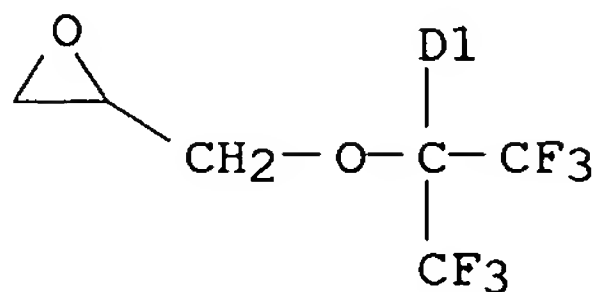
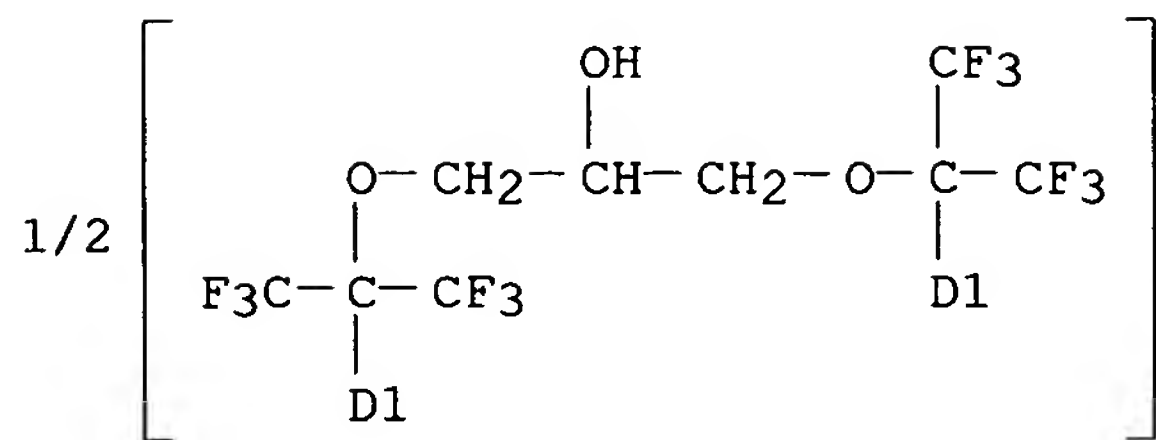
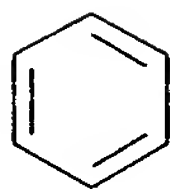
CMF C49 H57 F25 O12



RN 242146-33-4 CAPLUS
 CN 1,2-Cyclohexanedicarboxylic acid, 4-[[[3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-docosafluoro-12-(trifluoromethyl)tridecyl]oxy]methyl]-5-hydroxy-, bis[6-(7-oxabicyclo[4.1.0]hept-3-ylmethoxy)-6-oxohexyl] ester, polymer with 1,3-bis[2,2,2-trifluoro-1-(trifluoromethyl)-1-[[2,2,2-trifluoro-1-(oxiranylmethoxy)-1-(trifluoromethyl)ethyl]phenyl]ethoxy]-2-propanol, 3-ethenyl-7-oxabicyclo[4.1.0]heptane and 5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-heptafluoro-1-dodecene (9CI) (CA INDEX NAME)

CM 1

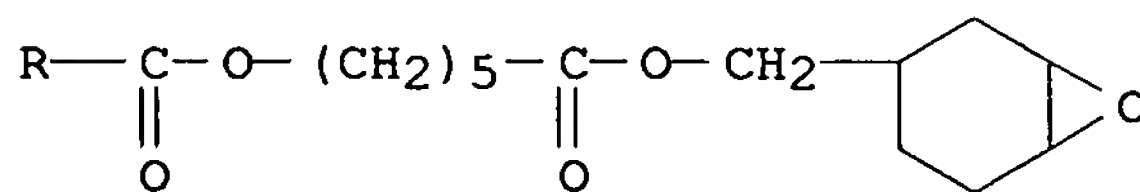
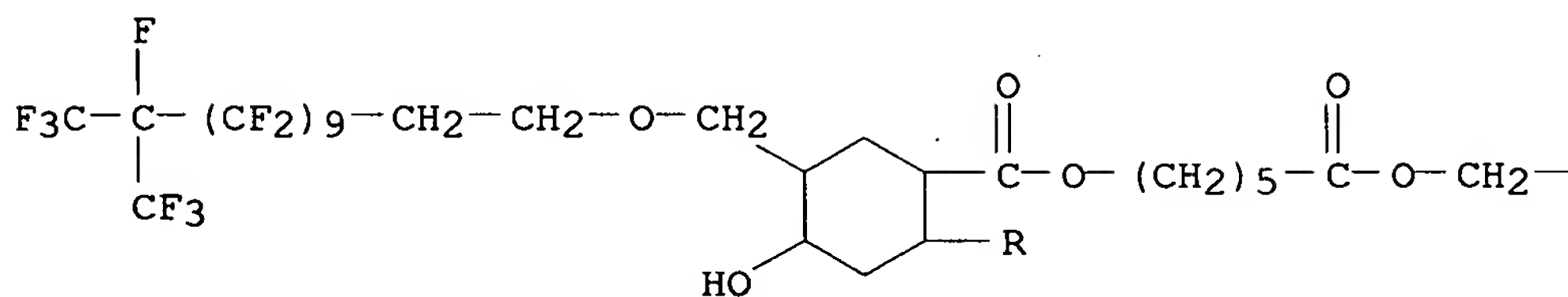
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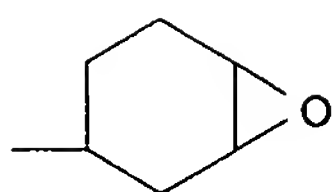
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CRN 241825-46-7
CMF C49 H57 F25 O12

PAGE 1-A

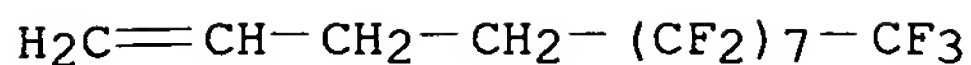


PAGE 1-B



CM 3

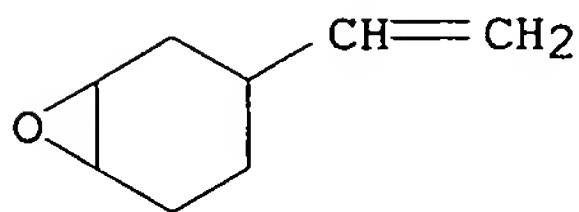
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CM 4

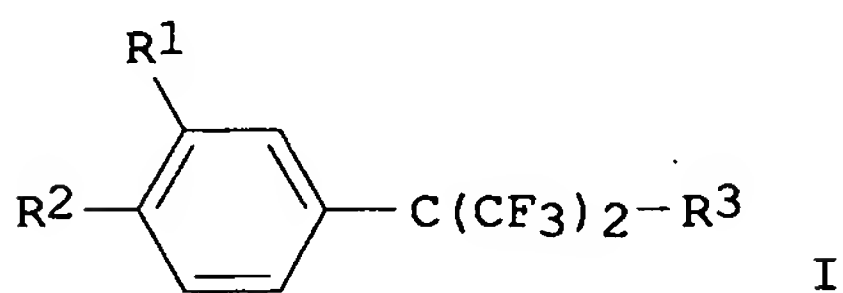
CRN 106-86-5

CMF C8 H12 O



L4 ANSWER 21 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1999:225909 CAPLUS
 DOCUMENT NUMBER: 130:289247
 TITLE: Reversible thermochromic composition with bright color
 INVENTOR(S): Fujita, Katsuyuki
 PATENT ASSIGNEE(S): Pilot Ink Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

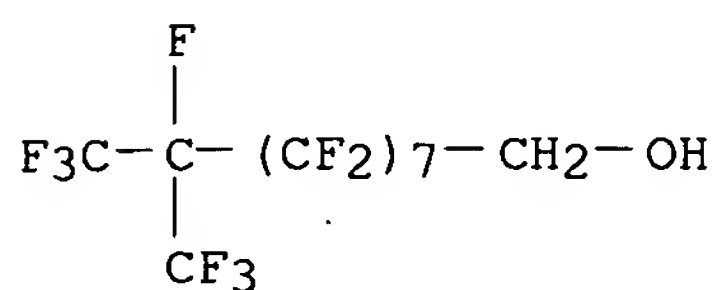
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------------------|----------|-----------------|----------|
| JP 11092759 | A | 19990406 | JP 1997-272191 | 19970917 |
| PRIORITY APPLN. INFO.: | | | JP 1997-272191 | 19970917 |
| OTHER SOURCE(S): | MARPAT 130:289247 | | | |
| GI | | | | |



AB The composition contains (A) an electron-donating organic coloring agent, (B) an electron-accepting F-containing alc. selected from $\text{F}(\text{CF}_2)_n\text{R}$, $\text{CF}(\text{CF}_3)_2(\text{CF}_2)_n\text{R}'$, $\text{H}(\text{CF}_2)_n\text{R}'$, $\text{CH}_2\text{FR}'$, $\text{CH}(\text{CF}_2)_2\text{R}''$, $\text{CF}_3\text{CHF}(\text{CF}_2)_2\text{R}'$, and a phenyl-substituted compound I [$\text{R} = \text{CH}_2\text{OH}$, $\text{C}_2\text{H}_4\text{OH}$, $\text{OCF}(\text{CF}_3)\text{CH}_2\text{OH}$; $\text{R}' = \text{CH}_2\text{OH}$, $\text{C}_2\text{H}_4\text{OH}$; $\text{R}'' = \text{OH}$, CH_2OH ; $n = 1-16$; $\text{R}^1, \text{R}^2 = \text{H}$, $\text{CF}(\text{CF}_3)_2\text{R}^3$; $\text{R}^3 = \text{OH}$, CH_2OH , $\text{C}_2\text{H}_4\text{OH}$; $\text{R}^1 = \text{R}^2 \neq \text{CF}(\text{CF}_3)_2\text{R}^3$], and (C) a reaction medium which induces reversible electron-transfer reaction in a specific temperature range. The composition gives bright color and is useful for thermometers, toys, decorative materials, etc.

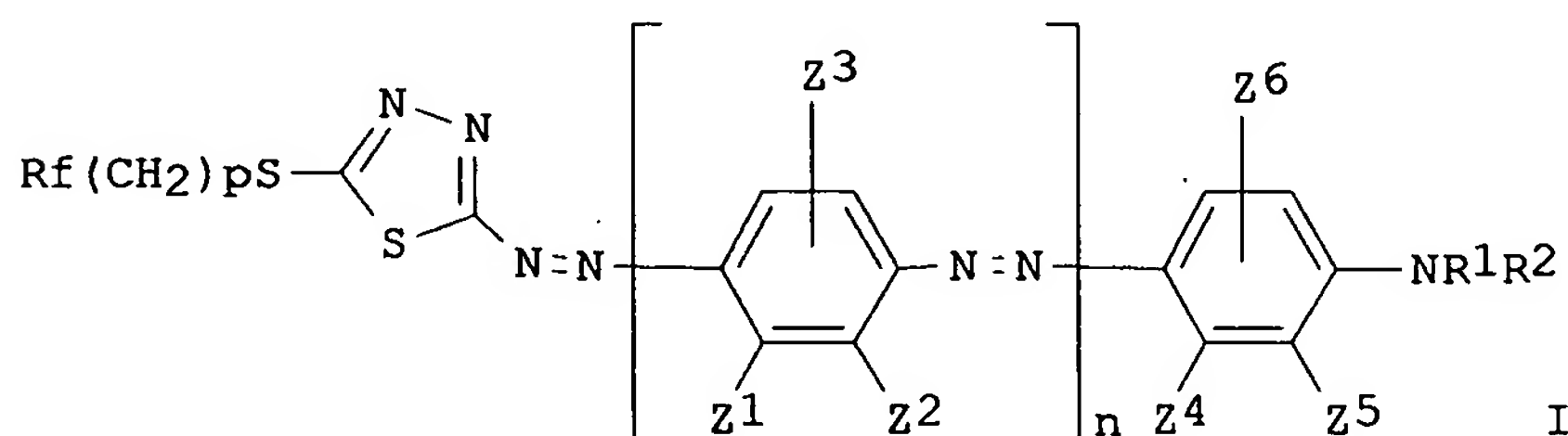
IT 222614-02-0
 RL: TEM (Technical or engineered material use); USES (Uses)
 (electron acceptor; reversible thermochromic composition containing F-containing

alc. electron donor)
 RN 222614-02-0 CAPLUS
 CN 1-Decanol, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-octadecafluoro-9-(trifluoromethyl)- (CA INDEX NAME)



L4 ANSWER 22 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1998:576635 CAPLUS
 DOCUMENT NUMBER: 129:252573
 TITLE: Fluorine-containing azo dichroic dye, liquid-crystal composition containing it, and liquid-crystal component using it
 INVENTOR(S): Kaneko, Masaharu; Ishio, Hisayo
 PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------------------|----------|-----------------|----------|
| JP 10231436 | A | 19980902 | JP 1997-51113 | 19970220 |
| PRIORITY APPLN. INFO.: | | | JP 1997-51113 | 19970220 |
| OTHER SOURCE(S): | MARPAT 129:252573 | | | |
| GI | | | | |



AB The claimed F-containing azo dichroic dye is shown as I [Rf = alkyl substituted with ≥ 3 F; R1, R2 = H, alkyl, alkoxyalkyl, alkyl substituted with ≥ 3 F, (substituted) aralkyl, (substituted) cycloalkyl; R1 and R2, R1 and Z6, and/or R2 and Z6 may form N-containing aliphatic ring; Z1-6 = H, halo, Me, MeO; Z1 and Z2 and/or Z4 and Z5 may form aliphatic, aromatic, or N-containing aromatic ring; n = 0-2; p = 1, 2]. The liquid-crystal composition contains I. The liquid-crystal component containing the above composition is also claimed. The dye shows high dichroism and gives liquid-crystal components for red-blue images with improved durability in repeated use.

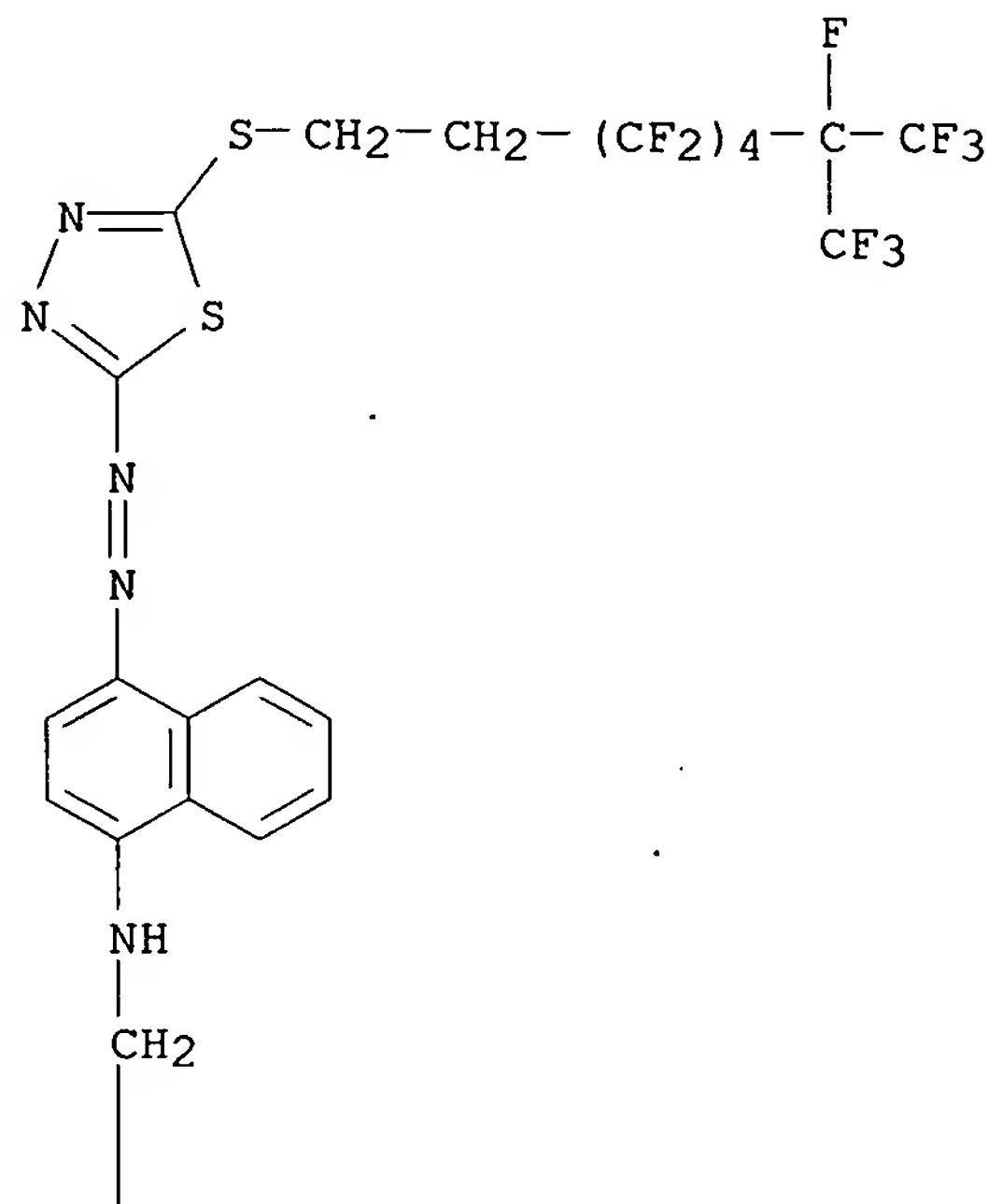
IT 212482-58-1
 RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
 (F-containing azo dichroic dye for liquid-crystal displays giving

high-contrast red-blue image)

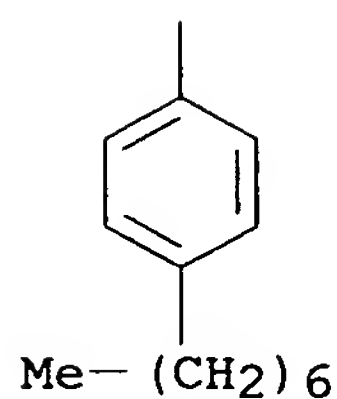
RN 212482-58-1 CAPLUS

CN 1-Naphthalenamine, 4-[[5-[[3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl]thio]-1,3,4-thiadiazol-2-yl]azo]-N-[(4-heptylphenyl)methyl]- (9CI) (CA INDEX NAME)

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L4 ANSWER 23 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:267129 CAPLUS

DOCUMENT NUMBER: 126:285789

TITLE: Preparation of 2,3-dicyanobenzene derivatives as liquid crystals and chiral smectic liquid crystal composition, liquid crystal device, and liquid crystal apparatus

INVENTOR(S): Nakamura, Shinichi; Yamada, Nobutsugu; Shinjo, Kenji; Terada, Masahiro; Sato, Koichi

PATENT ASSIGNEE(S): Canon Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

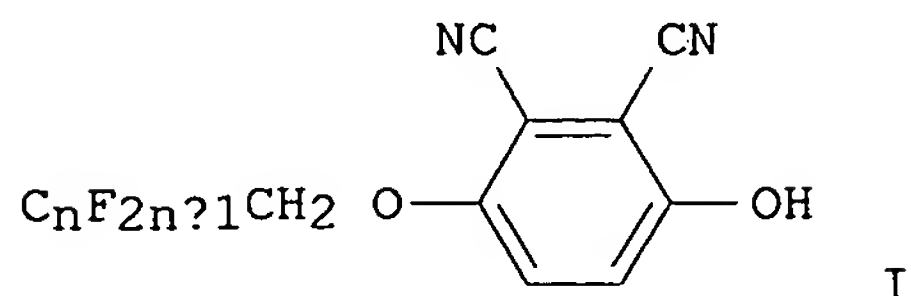
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 09059241 | A | 19970304 | JP 1995-234652 | 19950822 |
| PRIORITY APPLN. INFO.: | | | JP 1995-234652 | 19950822 |

GI

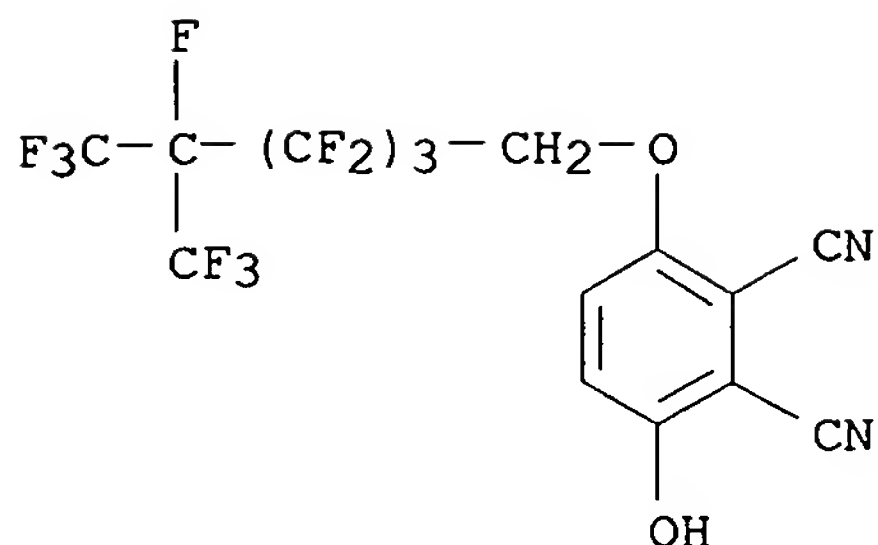


AB The title compds. represented by general formula X-Z [X = (un)branched C2-30 alkyl containing at least one perfluorocarbon, wherein one or 2 \geq CH2 groups of the alkyl chain are optionally replaced by Y, YCO, COY, CO, O CO2, CH:CH, or C.tplbond.C (wherein Y = O, S) and the alkyl group is optionally substituted by OH, NRR', or CO2H (wherein R, R' = H, C1-5 alkyl); Z = 2,3-dicyanophenyl optionally substituted by a plural number of OH, NH2, and F], preferably p-(perfluoroalkylmethyl)-2,3-dicyanophenol (I; n = 2-20), are prepared A chiral smectic liquid crystal composition containing at least each one of above compds. and other liquid crystal compds., preferably phenylpyrimidine derivs., is claimed. A liquid crystal element comprises electrodes on a pair of top and bottom substrates and an orientation control layer having different orientation effect on a liquid crystal on each top and bottom substrate wherein polyimide is used at least one of the orientation layers, and a liquid crystal sandwiched between the pair of substrates, wherein the liquid crystal is a chiral smectic liquid crystal composition consisting of ≥ 1 compds. I and a group of F-containing liquid crystal compds. each having a fluorocarbon terminus and a hydrocarbon terminus both bonded to a nucleus and possessing a smectic phase or a potential smectic phase (≥ 70 weight%), and ≥ 30 weight% of the F-containing liquid crystal compds. consists of compds. containing an etheric O in at least one of fluorocarbon side chains. A liquid crystal apparatus using above liquid crystal element is claimed. This chiral smectic liquid crystal element realizes high brilliance, reliability, speed, contrast, and definition, large display area, and a book shelf or a similar structure of small phase tilt angle and has no initial problem of nonsymmetry and is useful for a flat panel display, projection display, and a light bulb for a printer.

IT 188643-82-5P
 RL: DEV (Device component use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) .
 (preparation of dicyanobenzene derivs. as liquid crystals and chiral smectic liquid crystal composition, liquid crystal device, and liquid crystal apparatus)

RN 188643-82-5 CAPLUS

CN 1,2-Benzenedicarbonitrile, 3-[[2,2,3,3,4,4,5,6,6,6-decafluoro-5-(trifluoromethyl)hexyl]oxy]-6-hydroxy- (CA INDEX NAME)



IT 188643-85-8

RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

(preparation of dicyanobenzene derivs. as liquid crystals and chiral smectic liquid crystal composition, liquid crystal device, and liquid crystal

apparatus)

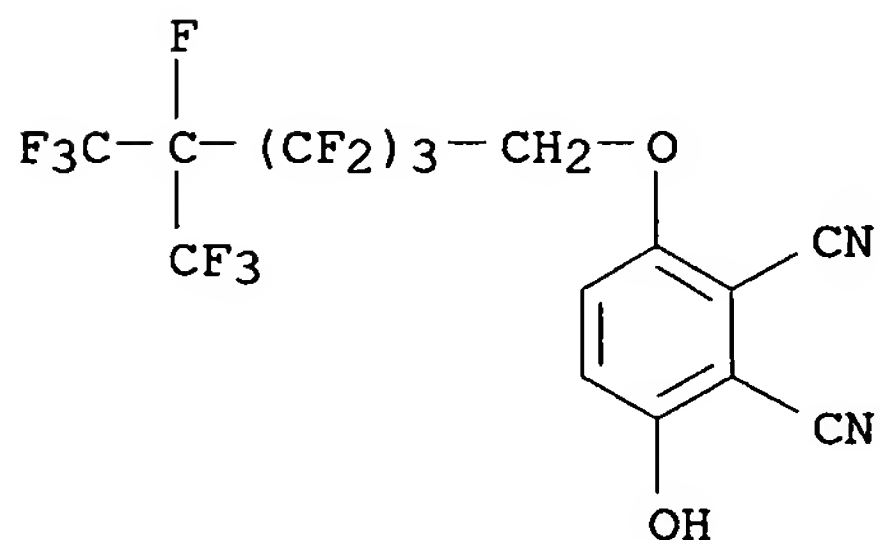
RN 188643-85-8 CAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 4'-octyl-, 5-(hexyloxy)tetrahydro-6-(trifluoromethyl)-2H-pyran-2-yl ester, mixt. with 3-[[2,2,3,3,4,4,5,6,6,6-decafluoro-5-(trifluoromethyl)hexyl]oxy]-6-hydroxy-1,2-benzenedicarbonitrile, 5-decyl-2-[4-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]phenyl]pyrimidine, 2-[4-[2,2-difluoro-2-[1,1,2,2-tetrafluoro-2-(nonafluorobutoxy)ethoxy]ethoxy]phenyl]-5-octylpyrimidine, 5-nonyl-2-[4-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]phenyl]pyrimidine, 5-octyl-2-[4-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctyl)oxy]phenyl]pyrimidine and tetrahydro-3,3-dimethyl-6-[[4-(5-octyl-2-pyrimidinyl)phenoxy]methyl]-2H-pyran-2-one (9CI) (CA INDEX NAME)

CM 1

CRN 188643-82-5

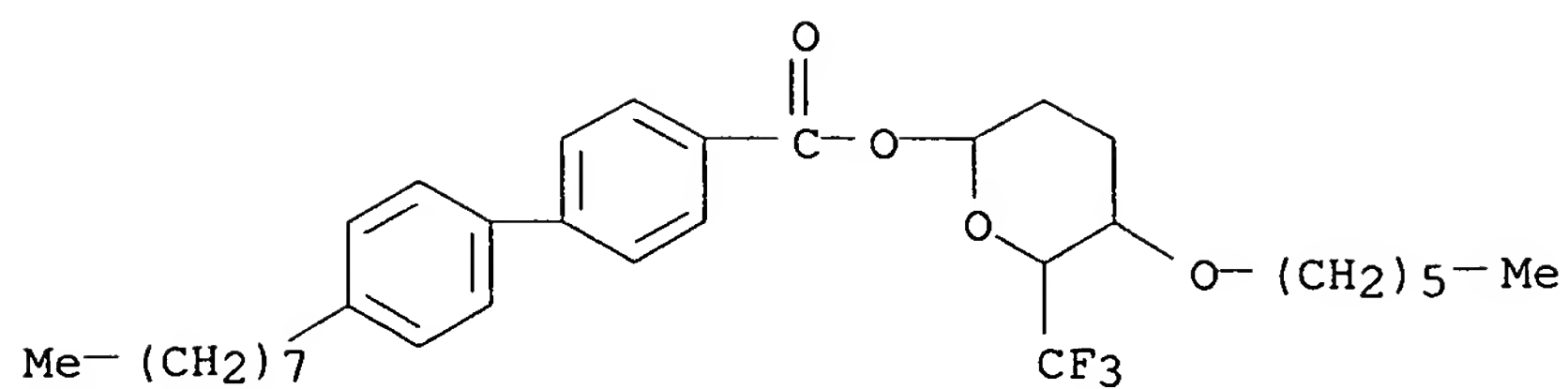
CMF C15 H5 F13 N2 O2



CM 2

CRN 188643-78-9

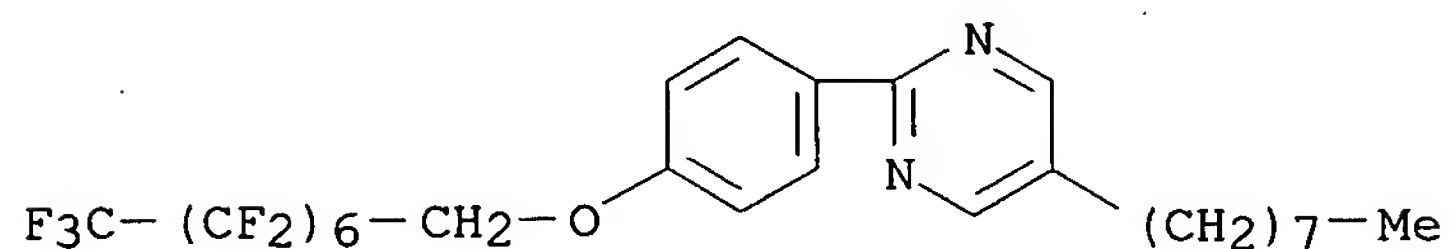
CMF C33 H45 F3 O4



CM 3

CRN 152915-43-0

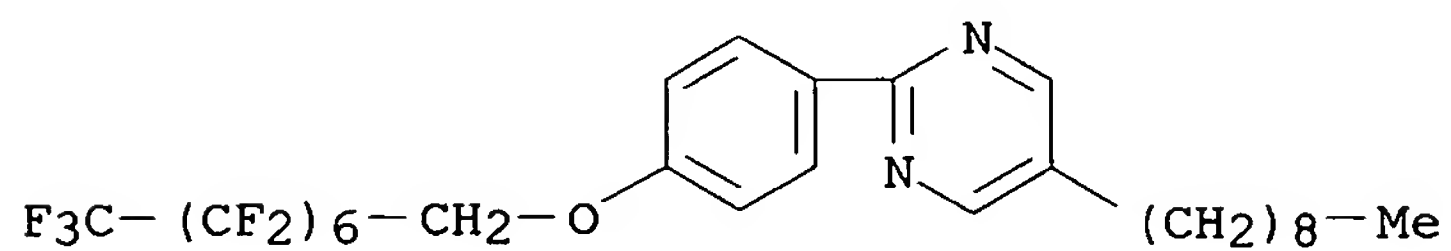
CMF C26 H25 F15 N2 O



CM 4

CRN 152915-42-9

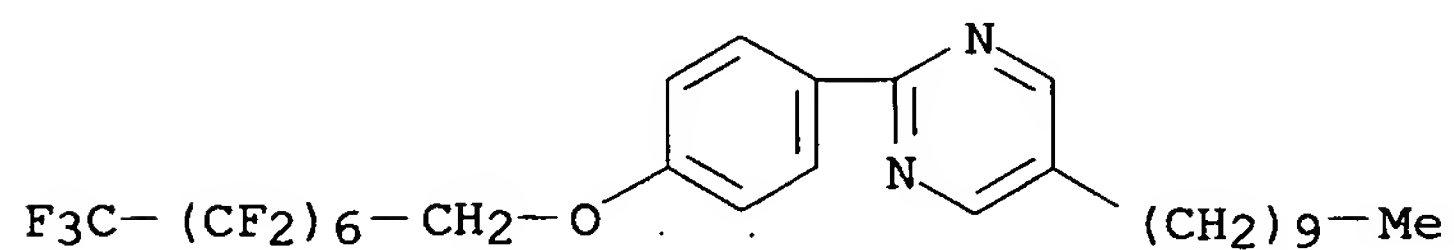
CMF C27 H27 F15 N2 O



CM 5

CRN 152915-41-8

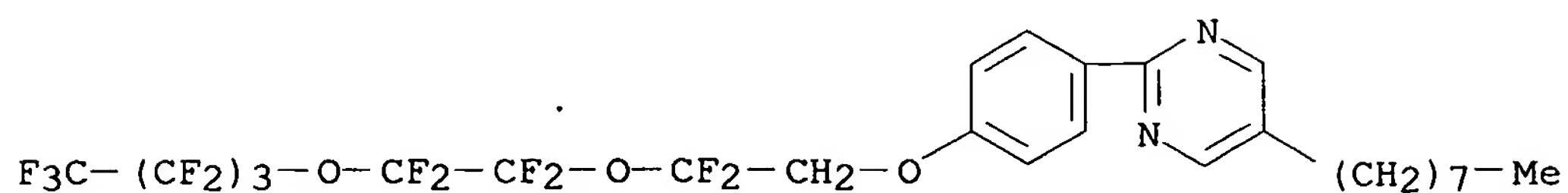
CMF C28 H29 F15 N2 O



CM 6

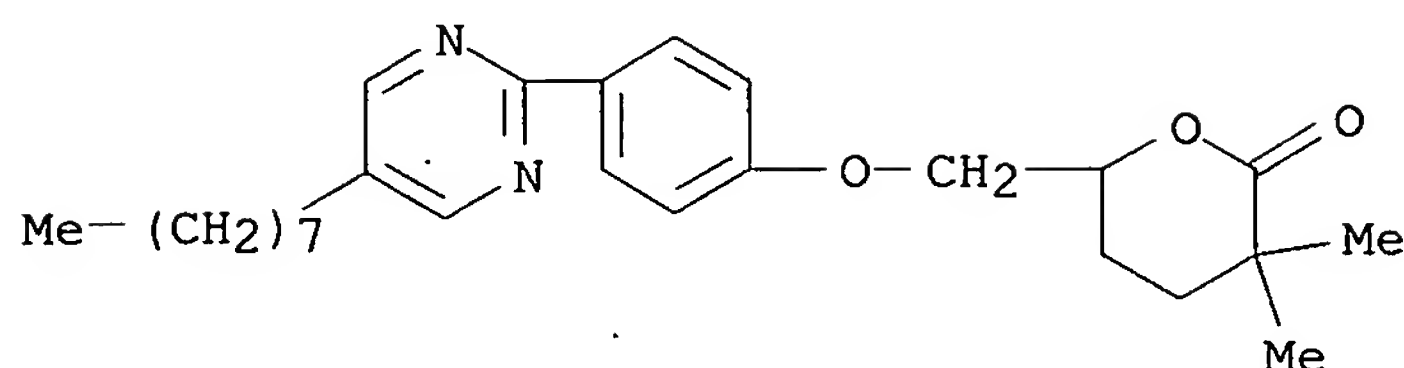
CRN 152914-98-2

CMF C26 H25 F15 N2 O3



CM 7

CRN 141024-07-9
CMF C26 H36 N2 O3



L4 ANSWER 24 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:134100 CAPLUS
DOCUMENT NUMBER: 124:179539
TITLE: Mixed solvent composition used as cleaning agents
INVENTOR(S): Kitamura, Kenroh; Ikehata, Michino; Tsuzaki, Masaaki
PATENT ASSIGNEE(S): AG Technology Co., Ltd., Japan
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 9532274 | A1 | 19951130 | WO 1995-JP948 | 19950518 |
| W: US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| JP 07316595 | A | 19951205 | JP 1994-113004 | 19940526 |
| EP 710715 | A1 | 19960508 | EP 1995-918736 | 19950518 |
| R: FR, GB, IT | | | | |
| JP 08034996 | A | 19960206 | JP 1995-121417 | 19950519 |
| JP 08120298 | A | 19960514 | JP 1995-121416 | 19950519 |
| JP 3346946 | B2 | 20021118 | | |
| US 5827454 | A | 19981027 | US 1996-578533 | 19960118 |
| US 6042749 | A | 20000328 | US 1998-92309 | 19980605 |

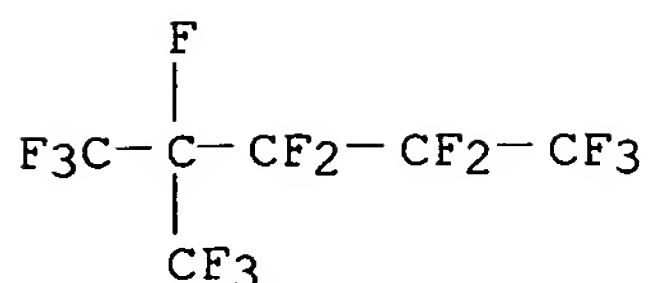
PRIORITY APPLN. INFO.:
JP 1994-105754 A 19940519
JP 1994-113004 A 19940526
JP 1994-205660 A 19940830
WO 1995-JP948 W 19950518
US 1996-578533 A1 19960118

AB A mixed solvent composition useful for cleaning electronic parts, etc., contains 1,1,1,2,3,4,4,5,5,5-decafluoropentane (I) and/or perfluorohexane and dichloropentafluoropropane as the essential ingredients, or contains I and/or perfluorohexane, dichloropentafluoropropane, and an alc. as the essential ingredients.

IT 355-04-4, Perfluoro-2-methylpentane
RL: NUU (Other use, unclassified); USES (Uses)
(mixed solvent composition used as cleaning agents)

RN 355-04-4 CAPLUS

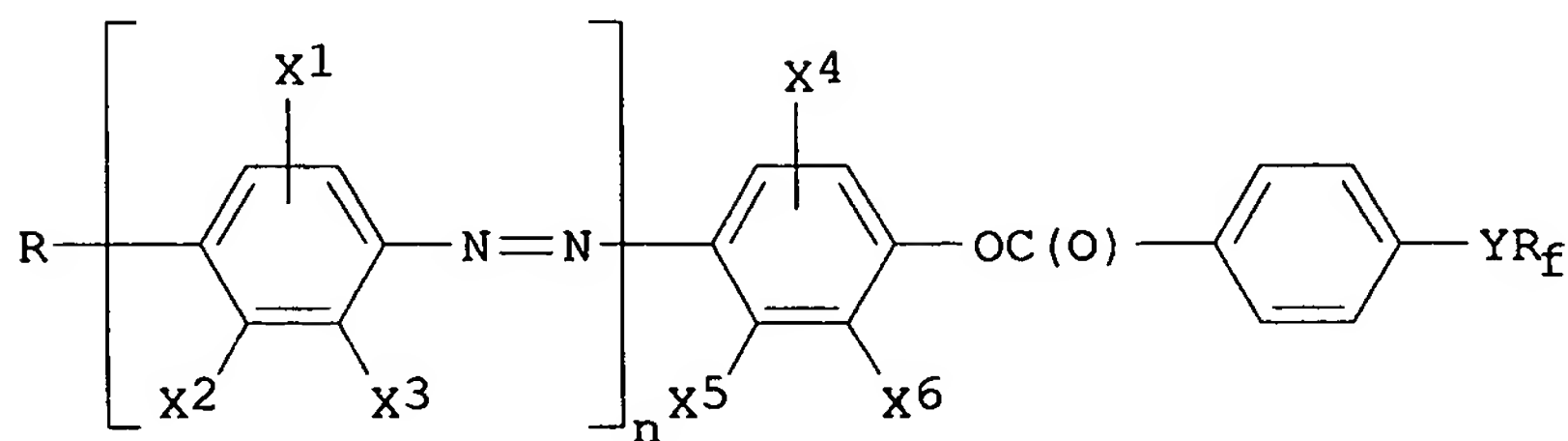
CN Pentane, 1,1,1,2,2,3,3,4,5,5,5-undecafluoro-4-(trifluoromethyl)- (CA INDEX NAME)



L4 ANSWER 25 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1996:128488 CAPLUS
 DOCUMENT NUMBER: 124:274413
 TITLE: Fluorine-containing azo dye, liquid crystalline composition, and liquid crystalline device
 INVENTOR(S): Kaneko, Masaharu; Yoneyama, Tomio
 PATENT ASSIGNEE(S): Mitsubishi Kagaku KK, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------------------|----------|-----------------|----------|
| JP 07324169 | A | 19951212 | JP 1994-118534 | 19940531 |
| PRIORITY APPLN. INFO.: | | | JP 1994-118534 | 19940531 |
| OTHER SOURCE(S): | MARPAT 124:274413 | | | |

GI



I

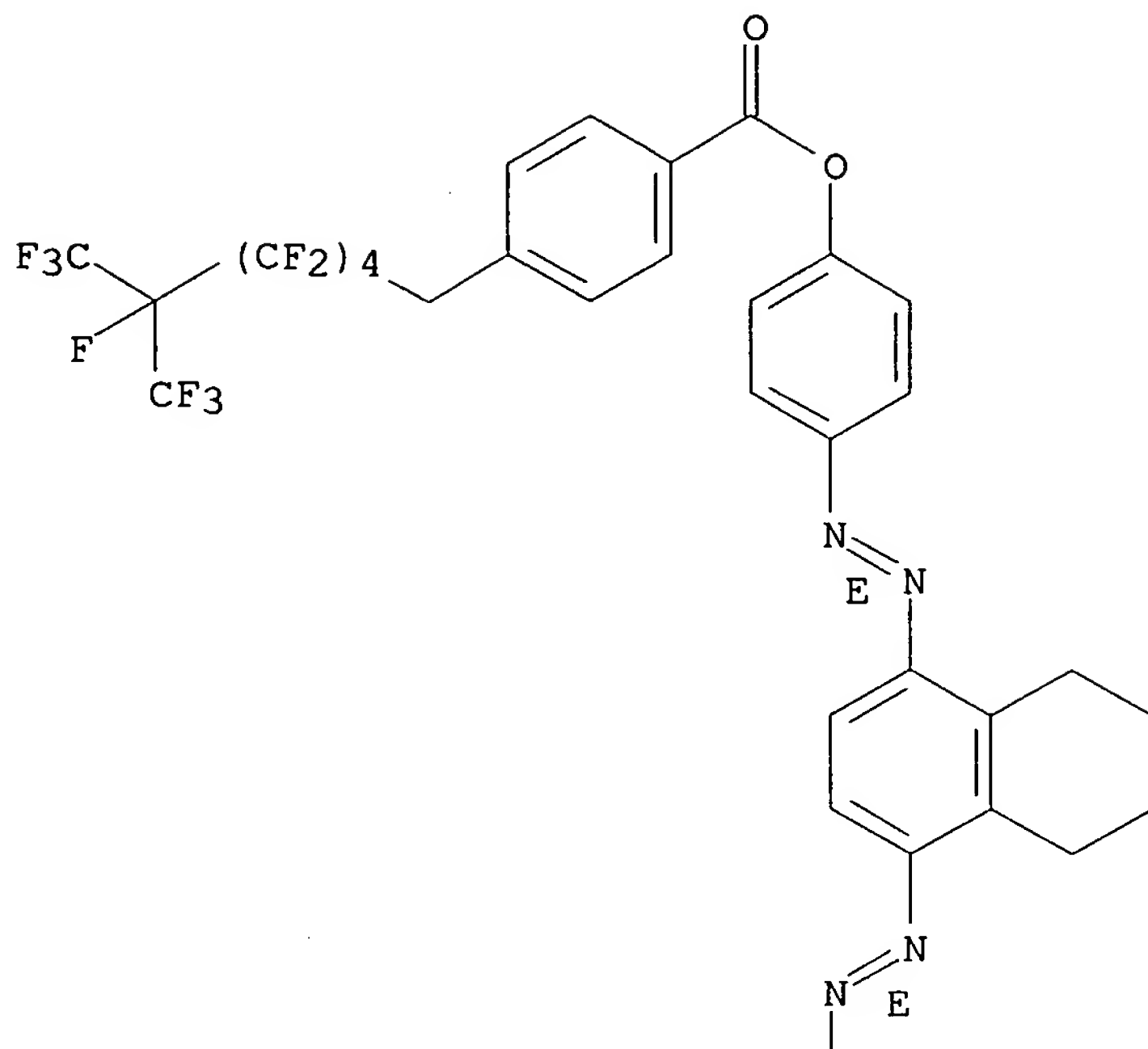
AB The title yellow F-containing azo dye I [Rf = ≥3 F-substituted alkyl which may be substituted with perfluoroalkoxy; Y = phenylene, (CH2)m, CH2CH:CH; m = 0-8; R = H, halo, alkyl, alkoxyalkyl, alkoxy, YRf, alkyl, Ph or cyclohexyl which may be substituted with alkoxyalkyl or alkoxy; X1-6 = H, halo, Me, methoxy; X2-3 and X5-6 may be bonded to each other to form aliphatic, aromatic, or N-containing aromatic ring; n = 1-3]. The composition contains liquid crystalline substance and the dye. The device is composed of the liquid crystalline composition sandwiched between substrates with electrodes, ≥1 of which is transparent.

IT 174962-36-8
 RL: TEM (Technical or engineered material use); USES (Uses)
 (fluorine-containing yellow azo dye, liquid crystalline composition, and liquid crystalline device)

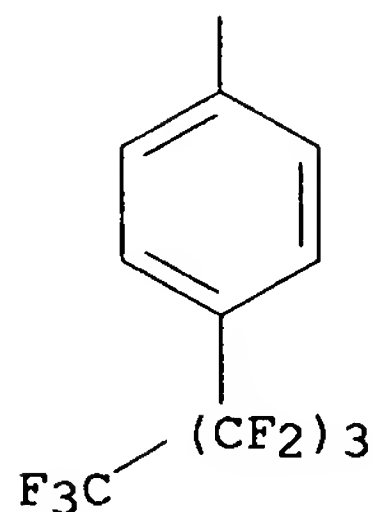
RN 174962-36-8 CAPLUS
 CN Benzoic acid, 4-[2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)heptyl]-, 4-[[5,6,7,8-tetrahydro-4-[[4-(nonafluorobutyl)phenyl]azo]-1-naphthalenyl]azo]phenyl ester, (E,E)- (9CI)
 (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A

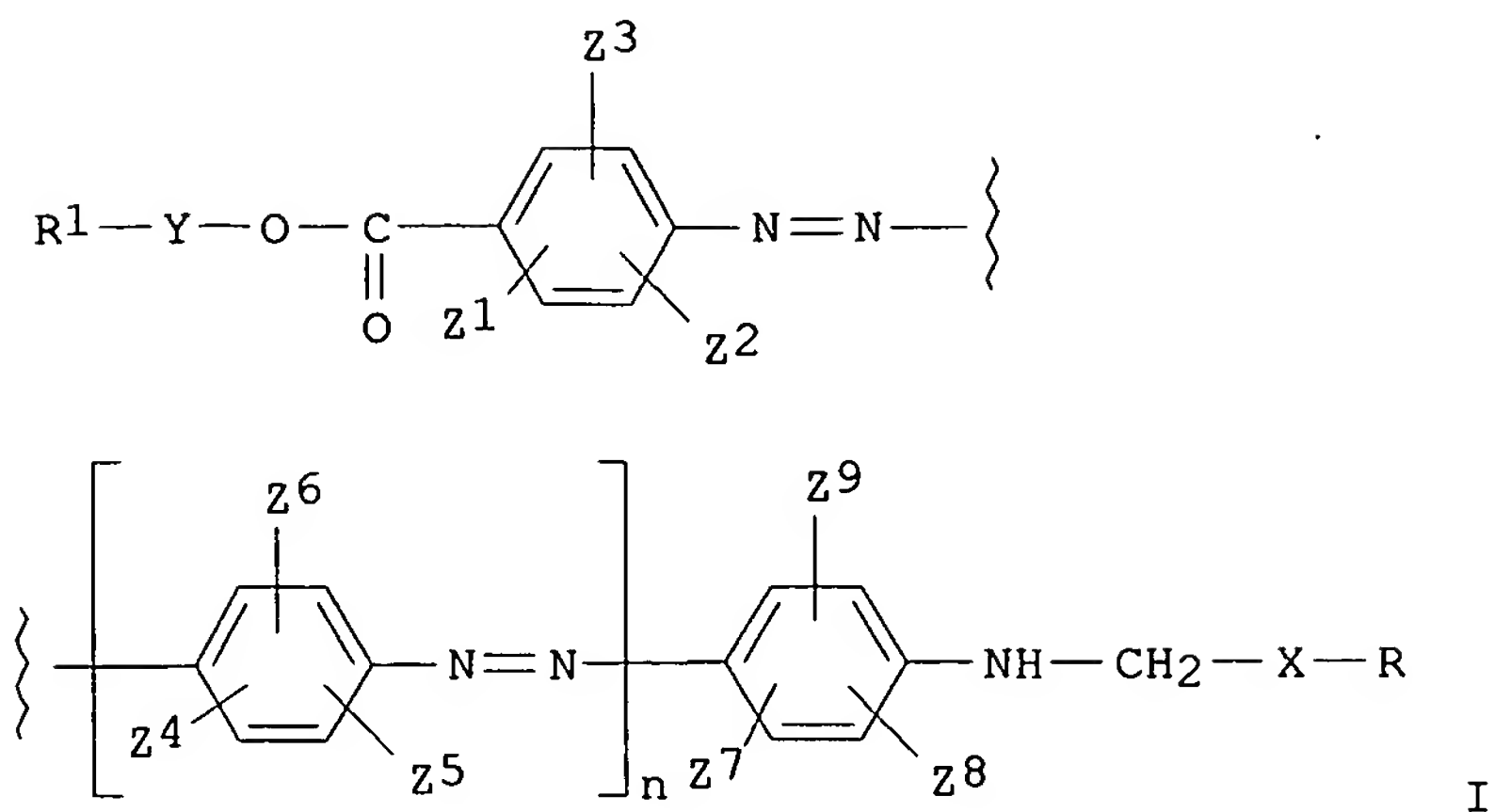


PAGE 2-A



L4 ANSWER 26 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:35325 CAPLUS
DOCUMENT NUMBER: 124:189650
TITLE: Dichroic dye, liquid crystal composition
containing it and liquid crystal device with high
contrast
INVENTOR(S): Kaneko, Masaharu; Hosogai, Hisayo
PATENT ASSIGNEE(S): Mitsubishi Kagaku KK, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

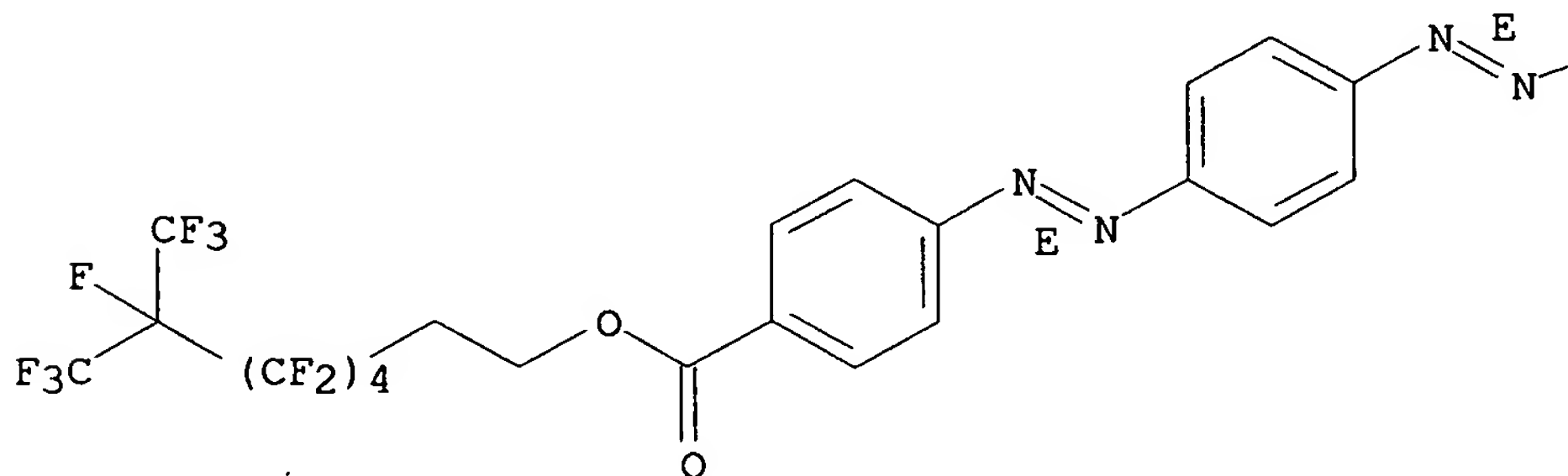
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 07278551 | A | 19951024 | JP 1994-77638 | 19940415 |

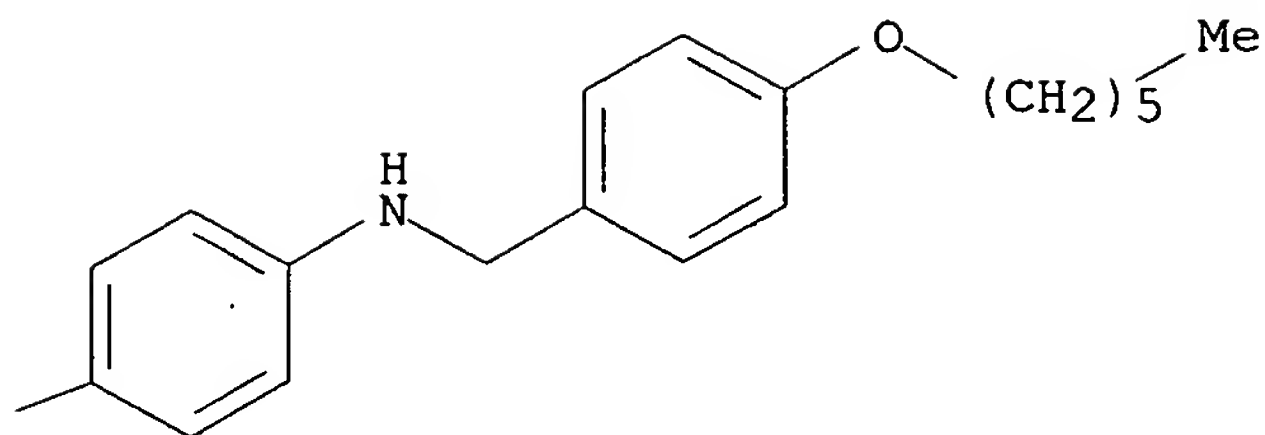


- AB F-containing azo-type dichroic dye I [R1 = alkyl containing ≥ 3 Fs; Y = (CH₂)_m, CH₂CH:CH; m = 1-8; R = alkyl, alkoxyalkyl, Ph, cyclohexyl; X = 1,4-phenylene, 1,4-cyclohexylene; Z1-9 = H, halo, Me, methoxy; n = 0,1] is claimed.
- IT 173923-20-1
RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
(liquid crystal composition containing fluorine-containing dichroic azo dye)
- RN 173923-20-1 CAPLUS
- CN Benzoic acid, 4-[[4-[[4-[[[4-(hexyloxy)phenyl]methyl]amino]phenyl]azo]phenyl]azo]-, 3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl ester, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

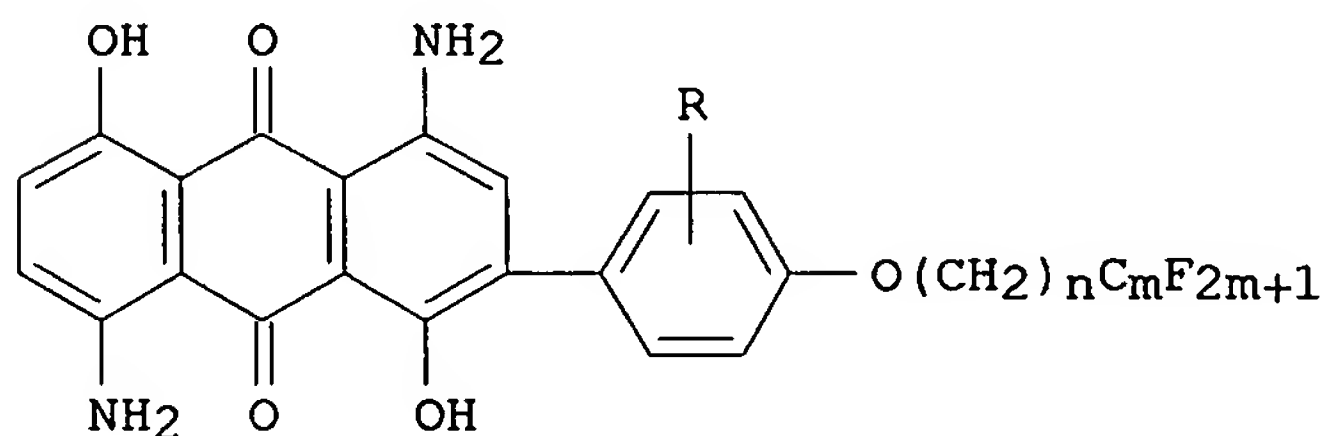
PAGE 1-A





L4 ANSWER 27 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:974147 CAPLUS
 DOCUMENT NUMBER: 124:131661
 TITLE: Anthraquinone compound, dichroism dye, and liquid crystal composition
 INVENTOR(S): Takuma, Hirosuke; Kuroda, Shizuo
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------------------|----------|-----------------|----------|
| JP 07252423 | A | 19951003 | JP 1994-45540 | 19940316 |
| PRIORITY APPLN. INFO.: | | | JP 1994-45540 | 19940316 |
| OTHER SOURCE(S): | MARPAT 124:131661 | | | |
| GI | | | | |



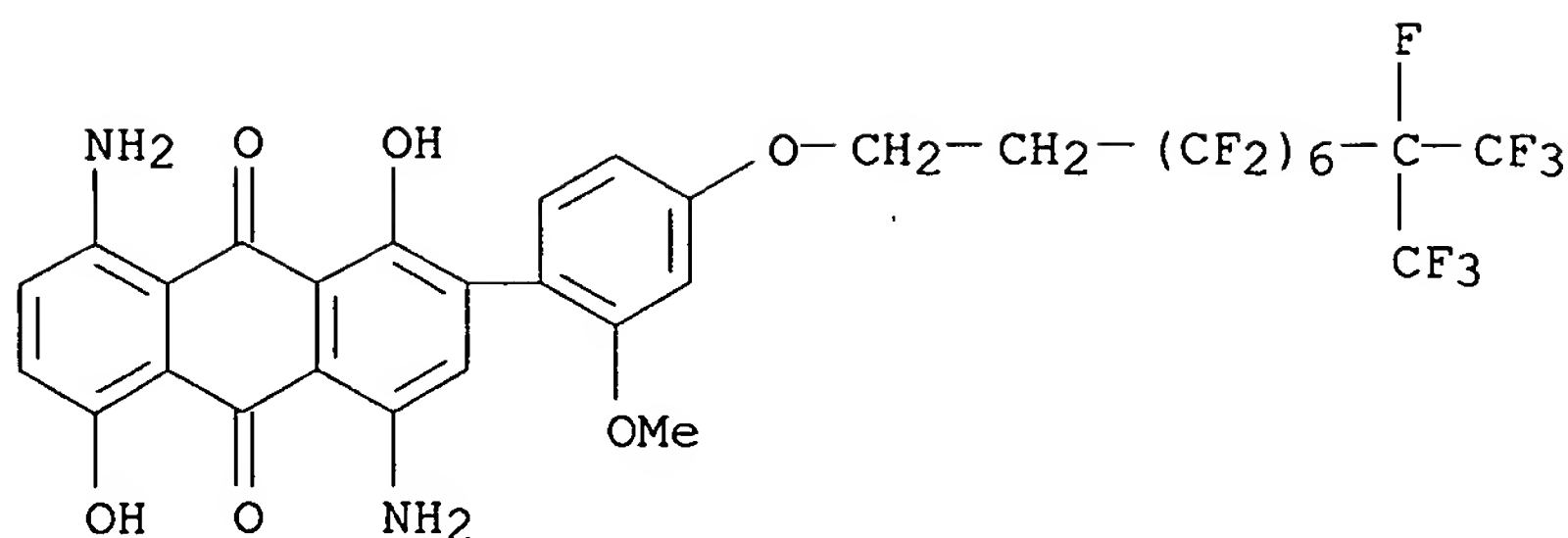
I

AB The liquid crystal composition contains ≥ 1 anthraquinone compound I (R = H, halo, Me, MeO; n = 0-6; m = 1-10) as a dichroism blue dye. I shows high dichroism ratio and good durability.

IT 173027-41-3P
 RL: PNU (Preparation, unclassified); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (perfluoroalkyl-containing anthraquinone dichroism blue dye with good durability and liquid crystal compns. for displays)

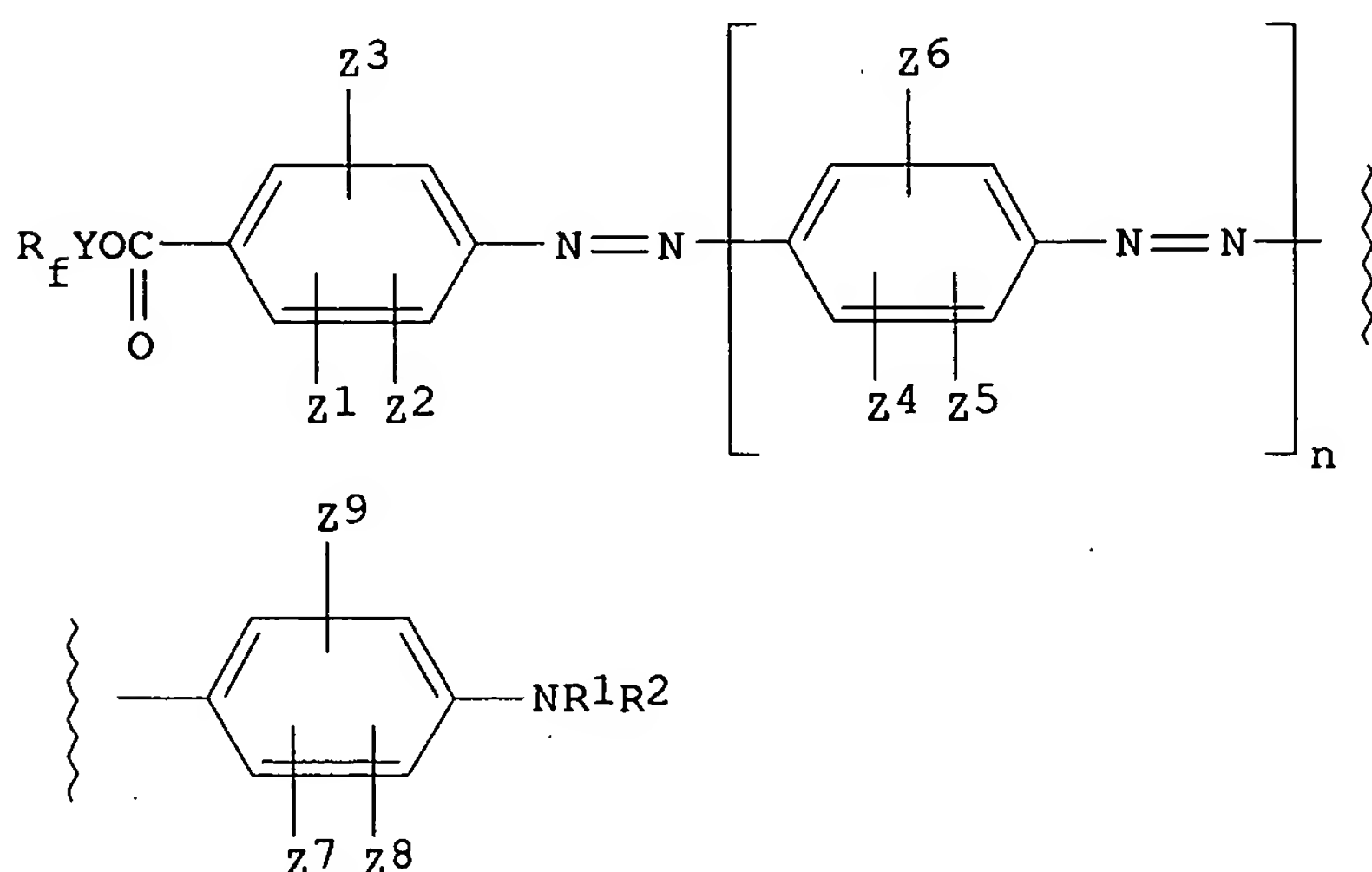
RN 173027-41-3 CAPLUS

CN 9,10-Anthracenedione, 4,8-diamino-2-[4-[[3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl]oxy]-2-methoxyphenyl]-1,5-dihydroxy- (CA INDEX NAME)



L4 ANSWER 28 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:922143 CAPLUS
 DOCUMENT NUMBER: 124:101952
 TITLE: Dichroic dye, liquid crystal composition
 using it and liquid crystal devices
 INVENTOR(S): Kaneko, Masaharu; Hosogai, Hisayo
 PATENT ASSIGNEE(S): Mitsubishi Kagaku KK, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-------------------|----------|
| JP 07224282 | A | 19950822 | JP 1994-15431 | 19940209 |
| PRIORITY APPLN. INFO.: | | | JP 1994-15431 | 19940209 |
| OTHER SOURCE(S): | | | MARPAT 124:101952 | |
| GI | | | | |



I

AB The F-containing azo-type dichloric dye has formula I [$R_f = \geq 3$ F-substituted alkyl optionally substituted with (Cl-substituted) perfluoroalkoxy, or Cl; Y = (halo-substituted) $(CH_2)_m$, or $CH_2CH:CH$; R1-2 = (alkoxy) alkyl, (substituted) aralkyl, or fluoroalkyl; R1 and R2 may form N-containing aliphatic ring; Z1-9 = H, halo, Me, or methoxy; Z1 and Z2, Z4 and Z5, or Z7 and Z8 may form aliphatic ring or (N-containing) aromatic ring; m = 1-8, n

= 0, 1]. The liquid crystal composition contains the chromic dye and liquid crystal compound. The liquid crystal device comprises the liquid crystal composition.

The device, using the liquid crystal composition with high dichroism and coloring

property, shows good contrast and durability.

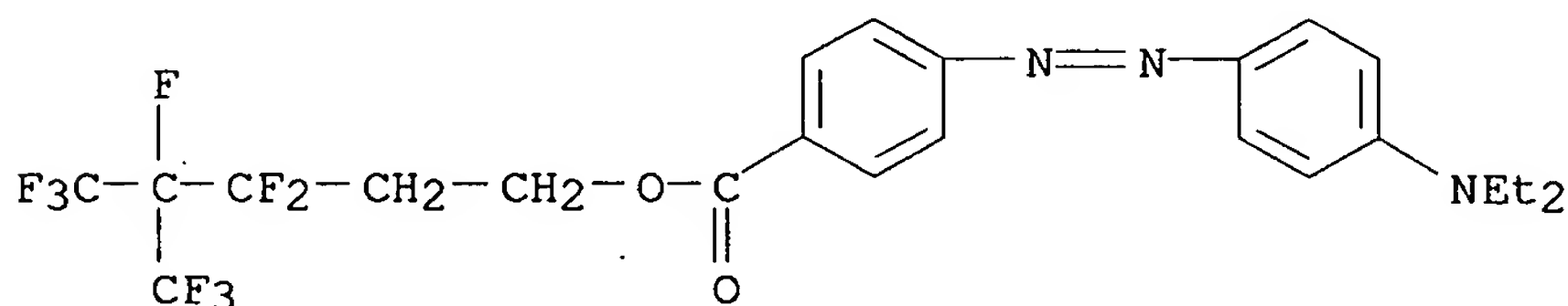
IT 172414-27-6

RL: DEV (Device component use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(fluorine-containing azo dichroic dye for liquid crystal composition and liquid crystal device)

RN 172414-27-6 CAPLUS

CN Benzoic acid, 4-[[4-(diethylamino)phenyl]azo]-, 3,3,4,5,5,5-hexafluoro-4-(trifluoromethyl)pentyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 29 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:789127 CAPLUS

DOCUMENT NUMBER: 123:230632

TITLE: Abherent composition containing fluoropolymers and silicones

INVENTOR(S): Yamana, Masayuki; Aga, Tsukasa

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| WO 9500307 | A1 | 19950105 | WO 1994-JP995 | 19940622 |
| W: CN, JP, KR, US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| EP 705671 | A1 | 19960410 | EP 1994-918546 | 19940622 |
| EP 705671 | B1 | 19990407 | | |
| R: DE, FR, GB | | | | |
| CN 1125920 | A | 19960703 | CN 1994-192559 | 19940622 |
| CN 1054800 | B | 20000726 | | |
| JP 3348433 | B2 | 20021120 | JP 1995-502649 | 19940622 |
| US 6531525 | B1 | 20030311 | US 1995-569256 | 19951222 |
| PRIORITY APPLN. INFO.: | | | JP 1993-153237 | A 19930624 |
| | | | WO 1994-JP995 | W 19940622 |

OTHER SOURCE(S): MARPAT 123:230632

AB An abherent composition comprises (A) a compound having a C4-C20 perfluoro-alkyl

or alkenyl group, (B) polytetrafluoroethylene having a number-average mol. weight of

500 thousand or less, and (C) at least one compound selected from the group consisting of silicone oils, silicone resins and highly fluorinated compds. each having a b.p. of 100°C or above, except for those included in the components (A) and (B). This composition prevents various

articles from adhering to each other and is suitable as a parting agent, antiblocking agent, wire stripping agent, and so forth. A typical composition contained a surfactant (Nissan Nymeen S220), $[(CF_3)_2CF(CF_2CF_2)_3CH_2CH(OH)CH_2O]_nPO(OH)_3-n$, and SH200 in water.

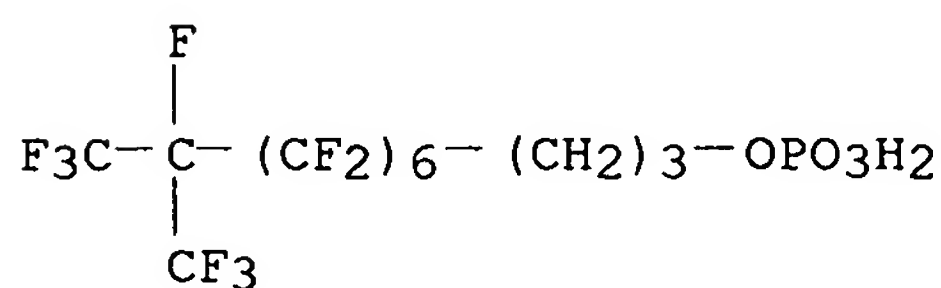
IT 167758-91-0 167758-92-1 167935-92-4
168394-92-1

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(adherent composition containing fluoropolymers and silicones)

RN 167758-91-0 CAPLUS

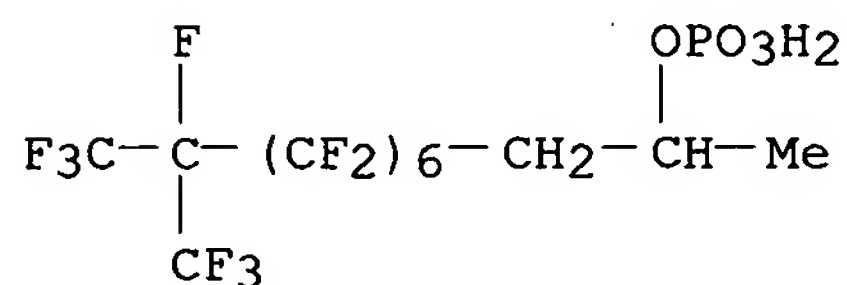
CN 1-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate, ammonium salt (9CI) (CA INDEX NAME)



●x NH₃

RN 167758-92-1 CAPLUS

CN 2-Undecanol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, dihydrogen phosphate, ammonium salt (9CI) (CA INDEX NAME)



●x NH₃

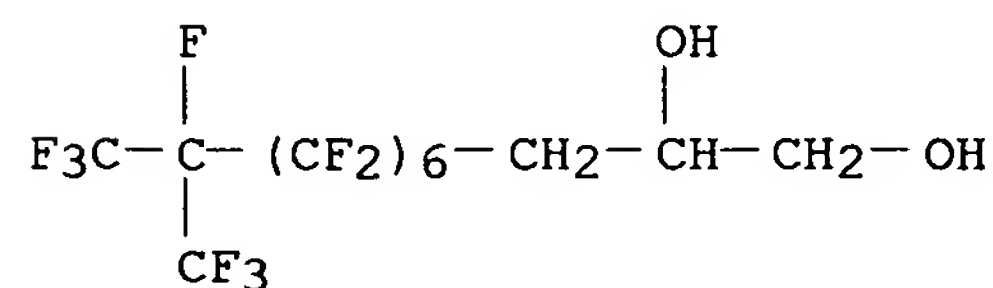
RN 167935-92-4 CAPLUS

CN 1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, 1-phosphate (9CI) (CA INDEX NAME)

CM 1

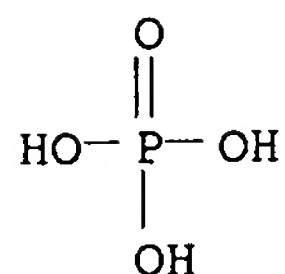
CRN 67824-44-6

CMF C12 H7 F19 O2



CM 2

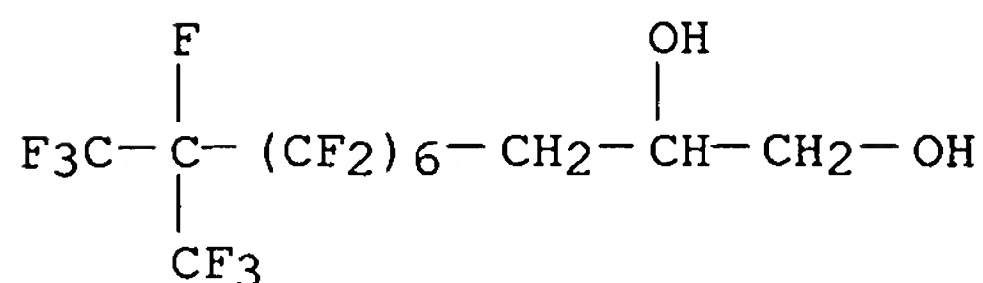
CRN 7664-38-2
CMF H3 O4 P



RN 168394-92-1 CAPLUS
CN 1,2-Undecanediol, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-, 1-phosphate, ammonium salt (9CI) (CA INDEX NAME)

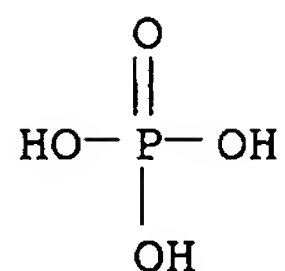
CM 1

CRN 67824-44-6
CMF C12 H7 F19 O2



CM 2

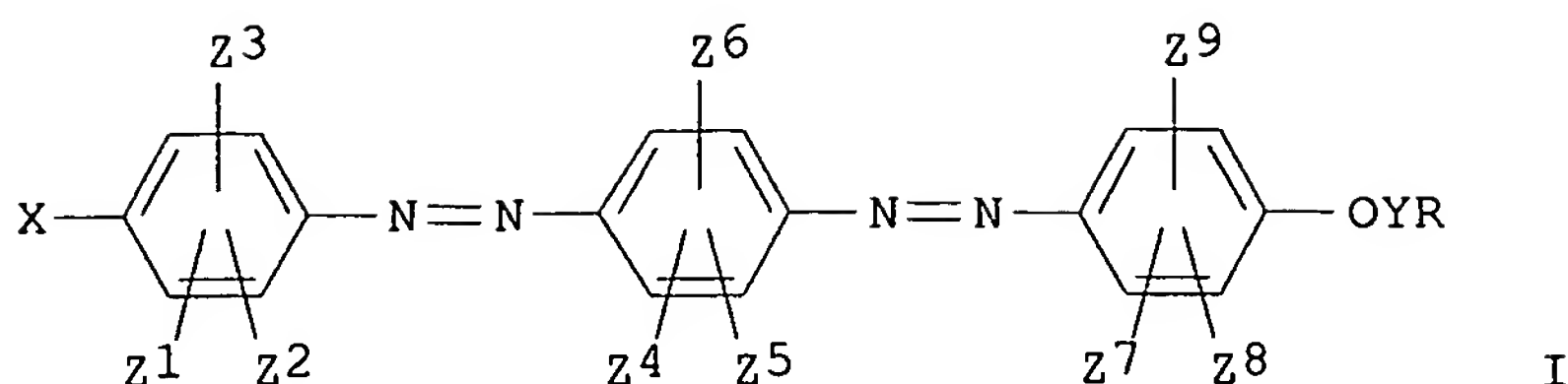
CRN 7664-38-2
CMF H3 O4 P



L4 ANSWER 30 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:746229 CAPLUS
DOCUMENT NUMBER: 123:127835
TITLE: Liquid crystal composition for display device
INVENTOR(S): Kaneko, Masaharu; Hosogai, Hisayo
PATENT ASSIGNEE(S): Mitsubishi Kagaku KK, Japan; Mitsubishi Chemical Corp.
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|-------------------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| JP 07126623 | A | 19950516 | JP 1993-274424 | 19931102 |
| JP 3536322 | B2 | 20040607 | | |
| PRIORITY APPLN. INFO.: | | | JP 1993-274424 | 19931102 |
| OTHER SOURCE(S): | | MARPAT 123:127835 | | |

GI



AB A liquid crystal composition for a display device showing improved contrast and durability comprises a dichroic dye having the general formula I (R = alkyl substituted by ≥ 3 F atoms, perfluoroalkoxy, or Cl-substituted perfluoroalkoxy; Y = (CH₂)_n or CH₂CH=CH which may be substituted by halogen atoms; n = 1-8; X = H, alkyl, alkoxy, cycloalkyl, nitro, cyano, acyloxy, aryl, alkylsulfonyl, halogen, a carboxylic acid ester group, or NR₁R₂ where R₁, R₂ = H, alkyl, or R₁ and R₂ together may form a N-containing ring; Z₁-Z₉ = H, halogen, Me, methoxy, or Z₁ and Z₂, Z₄ and Z₅, or Z₇ and Z₈ together may form an aliphatic, aromatic, or N-containing aromatic ring).

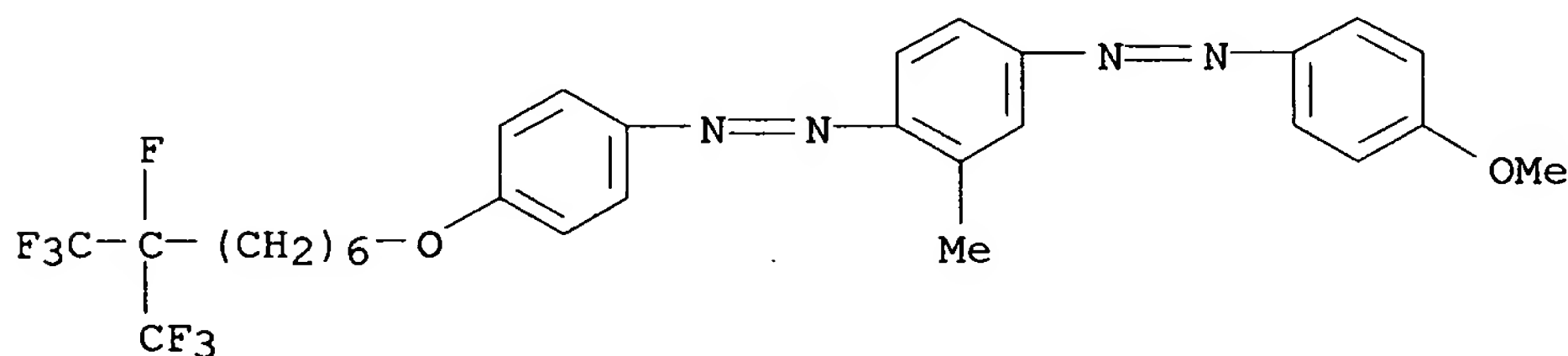
IT 166598-12-5P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation and use as dichroic dye for liquid-crystal display devices)

RN 166598-12-5 CAPLUS

CN Diazene, [4-[(4-methoxyphenyl)azo]-2-methylphenyl][4-[[7,8,8,8-tetrafluoro-7-(trifluoromethyl)octyl]oxy]phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 31 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:215338 CAPLUS

DOCUMENT NUMBER: 118:215338

TITLE: A desiccant composition comprising an alcohol and a fluoroalkane for drying surfaces

INVENTOR(S): Omure, Yukio; Ide, Satoshi; Matsuda, Takahiro; Aoyama, Hirokazu; Seki, Eiji

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------|------|----------|-----------------|----------|
| EP 516029 | A1 | 19921202 | EP 1992-108816 | 19920526 |
| EP 516029 | B1 | 19950405 | | |
| R: DE, FR, GB, IT | | | | |
| KR 207355 | B1 | 19990715 | KR 1992-9011 | 19920527 |

JP 05154302 A 19930622 JP 1992-136706 19920528
 JP 3266936 B2 20020318
 US 5346645 A 19940913 US 1992-889364 19920528
 PRIORITY APPLN. INFO.: JP 1991-123803 A 19910528

AB The title composition comprises a C1-4 alc. and a fluoroalkane $C_nF_mH(2n+2)-m$ [$4 \leq n \leq 6$; $(2n - 2) \leq m \leq (2n + 2)$]. The composition is used between 40° and the b.p. for removing water from glass, metal, plastic, and other surfaces. A composition contained 6% EtOH and 94% FCH2CF2CF2CF3.

IT 147390-51-0

RL: USES (Uses)

(drying agents, for surfaces)

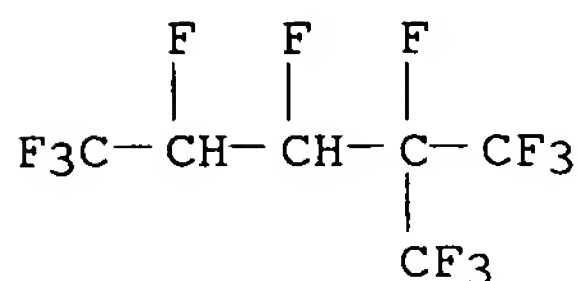
RN 147390-51-0 CAPLUS

CN Ethanol, mixt. with 1,1,1,2,3,4,5,5,5-nonafluoro-2-(trifluoromethyl)pentane (9CI) (CA INDEX NAME)

CM 1

CRN 85720-78-1

CMF C6 H2 F12



CM 2

CRN 64-17-5

CMF C2 H6 O



L4 ANSWER 32 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:534126 CAPLUS

DOCUMENT NUMBER: 113:134126

TITLE: Water- and oil-repellent composition for textiles

INVENTOR(S): Amimoto, Yoshio; Enomoto, Takashi; Hayashi, Kazunori

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 6 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| EP 368338 | A2 | 19900516 | EP 1989-120887 | 19891110 |
| EP 368338 | A3 | 19900808 | | |
| EP 368338 | B1 | 19950222 | | |
| R: DE, FR, GB | | | | |
| JP 02229879 | A | 19900912 | JP 1988-319130 | 19881216 |
| JP 2503612 | B2 | 19960605 | | |
| US 5242487 | A | 19930907 | US 1992-921973 | 19920804 |

PRIORITY APPLN. INFO.:

JP 1988-286376 A 19881111
 JP 1988-319130 A 19881216
 US 1989-433858 B1 19891109

AB Title composition comprises a water and oil repellent having a fluoroalkyl group, and 0.05-7% (based on repellent) compds. selected from glycerol, its ester or ether derivs., and a polyglycerol with m.p. <70°. These compns. impart good oil- and water-repellency to fabrics and have a good soft hand. The glycerol compds. used in these compns. were glycerol, glycerol α -monomethyl ether, glycerol α -monoacetate, and polyglycerol. The repellent was a terpolymer of (CF₃)₂CF(CF₂CF₂)_nCH₂CH₂O₂CCH:CH₂ (n = 3, 4, 5) with C₁₈H₃₇O₂CCH:CH₂, and CH₂:CHCO₂CH₂CH(OH)CH₂Cl.

IT 129401-61-2 129401-62-3 129401-68-9

RL: USES (Uses)

(waterproofing and oilproofing agent, containing glycerol derivs., for textiles)

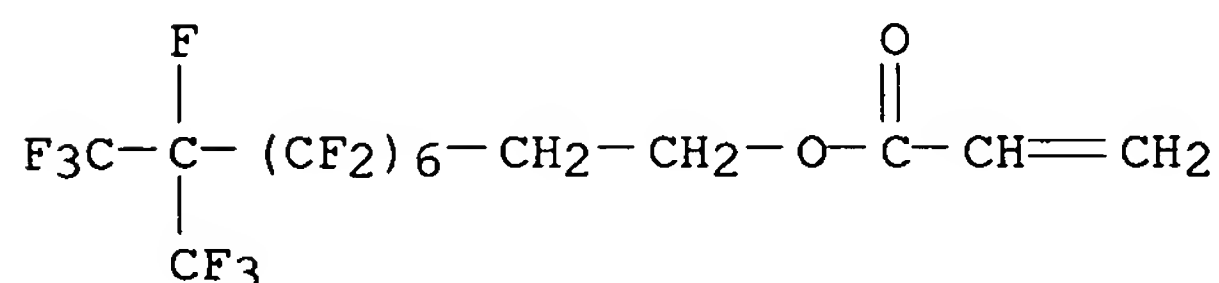
RN 129401-61-2 CAPLUS

CN 2-Propenoic acid, 3-chloro-2-hydroxypropyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl 2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 15577-26-1

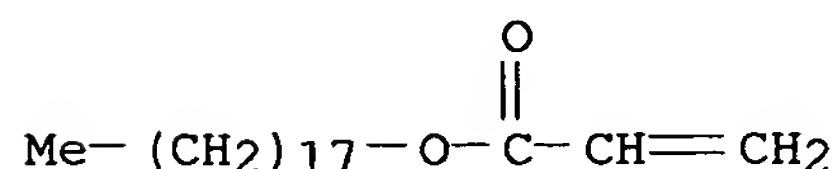
CMF C14 H7 F19 O2



CM 2

CRN 4813-57-4

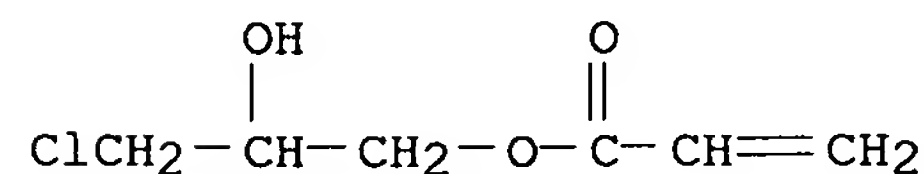
CMF C21 H40 O2



CM 3

CRN 3326-90-7

CMF C6 H9 Cl O3



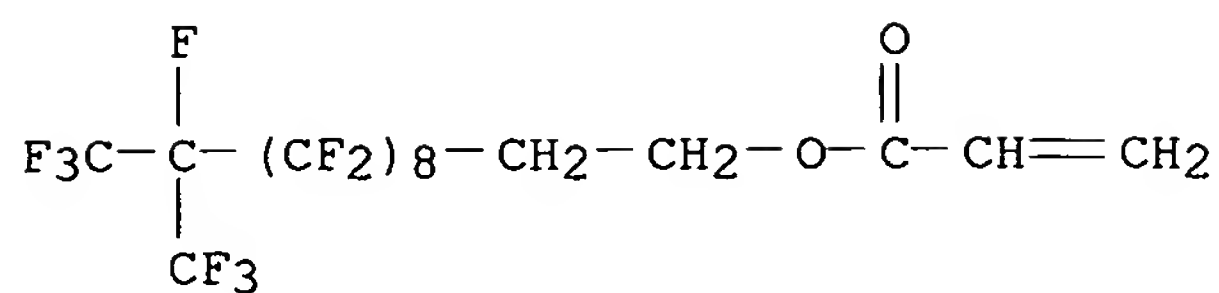
RN 129401-62-3 CAPLUS

CN 2-Propenoic acid, 3-chloro-2-hydroxypropyl ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-eicosafluoro-11-(trifluoromethyl)dodecyl 2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 52956-81-7

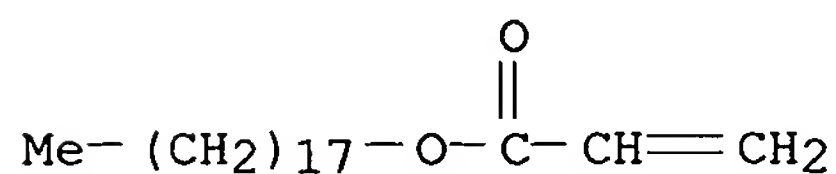
CMF C16 H7 F23 O2



CM 2

CRN 4813-57-4

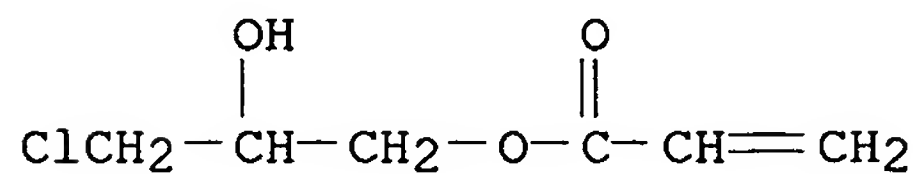
CMF C21 H40 O2



CM 3

CRN 3326-90-7

CMF C6 H9 Cl O3



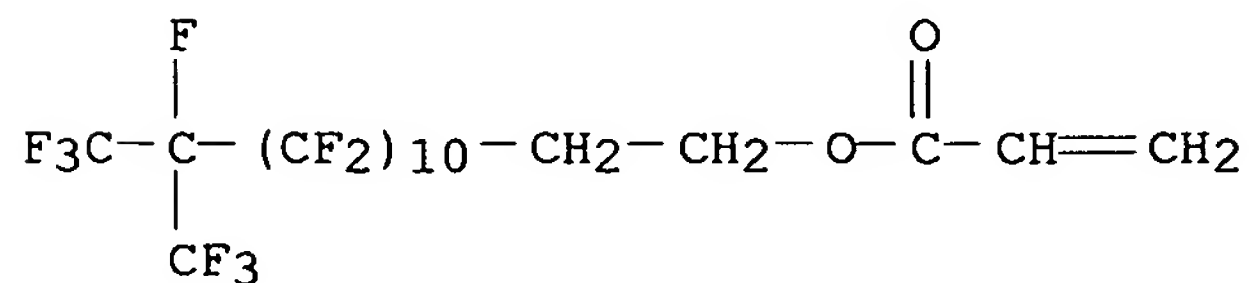
RN 129401-68-9 CAPLUS

CN 2-Propenoic acid, 3-chloro-2-hydroxypropyl ester, polymer with octadecyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 52956-82-8

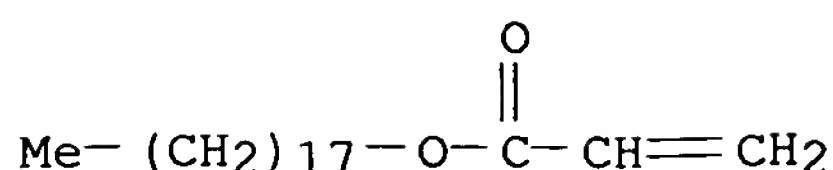
CMF C18 H7 F27 O2



CM 2

CRN 4813-57-4

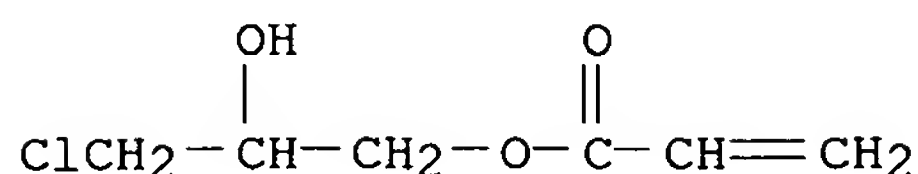
CMF C21 H40 O2



CM 3

CRN 3326-90-7

CMF C6 H9 Cl O3



L4 ANSWER 33 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:76705 CAPLUS

DOCUMENT NUMBER: 110:76705

TITLE: Fluorine-containing resin composition having a low refractive index

INVENTOR(S): Hashimoto, Yutaka; Kamei, Masayuki; Umaba, Toshihiko

PATENT ASSIGNEE(S): Dainippon Ink Chemical Industry Co., Japan

SOURCE: Eur. Pat. Appl., 73 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| EP 243605 | A2 | 19871104 | EP 1987-102644 | 19870225 |
| EP 243605 | A3 | 19890802 | | |
| EP 243605 | B1 | 19930616 | | |
| R: DE, FR, GB | | | | |
| JP 62199643 | A | 19870903 | JP 1986-40383 | 19860227 |
| JP 08011777 | B | 19960207 | | |
| JP 62250047 | A | 19871030 | JP 1986-93226 | 19860424 |
| JP 08019313 | B | 19960228 | | |
| JP 08211234 | A | 19960820 | JP 1995-217391 | 19950825 |
| JP 2570217 | B2 | 19970108 | | |

PRIORITY APPLN. INFO.:

JP 1986-40383 A 19860227

JP 1986-93226 A 19860424

AB The title compns. for optical fibers, giving cured products having n ≤1.44, comprise F-containing (30%) polymers composed of F-containing (meth)acrylates, α,β-ethylenically unsatd. dicarboxylic acid esters, and/or mono(meth)acrylates, and polyfunctional monomer containing ≥2 (meth)acryloyl groups. Thus, a composition comprising 90:5:5 CH₂:CHCO₂CH₂CH₂C₈F₁₇ (I)-Bu acrylate (II)-Bu fumarate copolymer 50, I 45, II 5, neopentyl glycol diacrylate 1, and 2-hydroxy-2-methyl-1-phenylpropan-1-one 4 parts had viscosity at 25° 8500 cP and n 1.362 and showed scratch-resistant adhesion to PMMA plate. A PMMA optical fiber core was coated with the above composition and UV-cured to give an optical fiber with transmission loss 1160 dB/km.

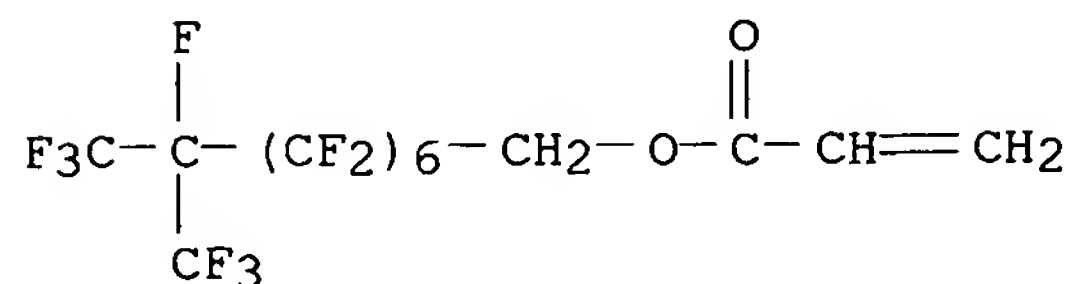
IT 118588-56-0P

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses) (manufacture of, for UV-curable claddings for plastic and glass optical fibers)

RN 118588-56-0 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester,
exo-, polymer with 2,2,3,3,4,4,5,5,6,6,7,7,8,9,9,9-hexadecafluoro-8-
(trifluoromethyl)nonyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

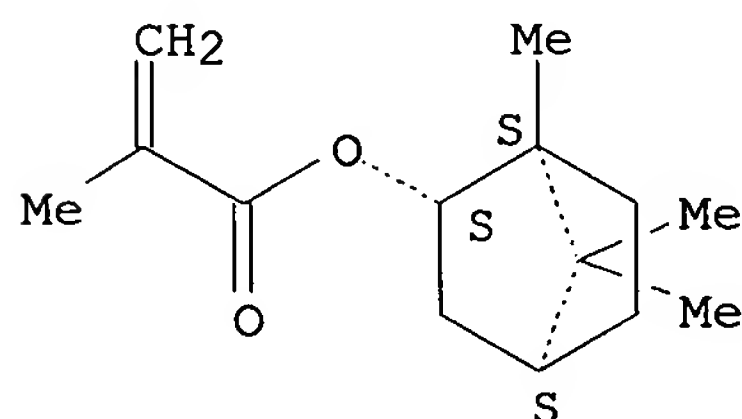
CRN 112902-42-8
CMF C13 H5 F19 O2



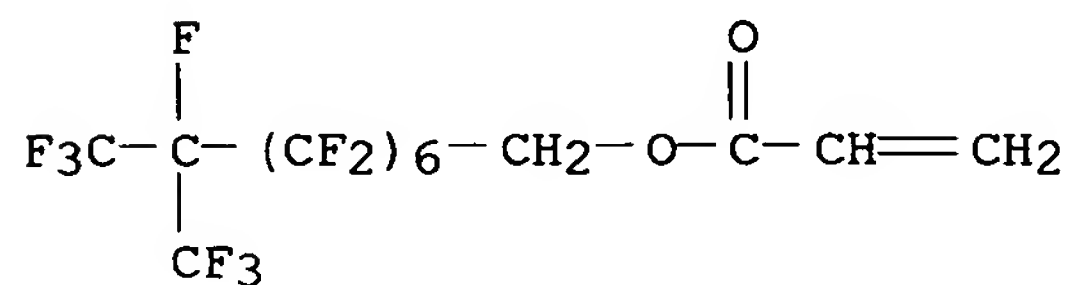
CM 2

CRN 7534-94-3
CMF C14 H22 O2

Relative stereochemistry.



IT 112902-42-8
RL: USES (Uses)
(photocurable fluoropolymer cladding compns. containing, for plastic and
glass optical fibers)
RN 112902-42-8 CAPLUS
CN 2-Propenoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,9,9,9-hexadecafluoro-8-
(trifluoromethyl)nonyl ester (CA INDEX NAME)



L4 ANSWER 34 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:606740 CAPLUS
DOCUMENT NUMBER: 109:206740
TITLE: Biocide suspension composition containing
fluoride surfactants
INVENTOR(S): Minagawa, Fumiyasu; Takeda, Hiroyuki; Maeda, Kazuyuki
PATENT ASSIGNEE(S): Arigaki Yakuhin Kogyo K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 63068502 | A | 19880328 | JP 1986-213371 | 19860909 |
| JP 07121842 | B | 19951225 | | |

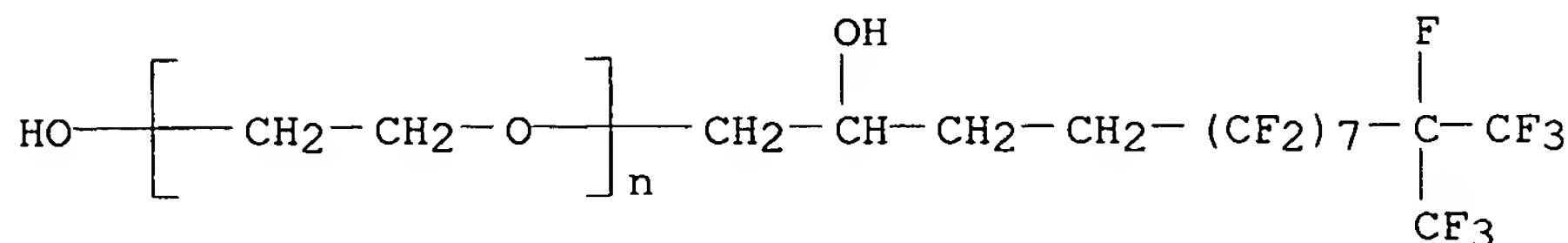
PRIORITY APPLN. INFO.: JP 1986-213371 19860909

AB A water-insol. biocide, which is solid at room temperature, is suspended in an aqueous medium containing fluoride surfactants and water-soluble thickening agents to form a stable suspension. A suspension consisted of thiram 20, thiophanate methyl 20, Unidyne DS-501 0.35, polyoxyethylene polystyrylphenyl ether 0.47, xanthan gum 0.40, and water 59.10 weight%. The preparation was 95% stable at 50° for 7 days.

IT 148919-89-5, Unidyne DS-403
RL: BIOL (Biological study)
(biocide suspension containing, stability in relation to)

RN 148919-89-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-octadecafluoro-2-hydroxy-12-(trifluoromethyl)tridecyl]- ω -hydroxy- (CA INDEX NAME)



L4 ANSWER 35 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:152103 CAPLUS

DOCUMENT NUMBER: 108:152103

TITLE: Fluorine-containing water-repellent oil-repellent composition

INVENTOR(S): Ohmori, Akira; Inukai, Hiroshi

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| EP 247489 | A2 | 19871202 | EP 1987-107185 | 19870518 |
| EP 247489 | A3 | 19900530 | | |
| EP 247489 | B1 | 19930825 | | |
| R: DE, FR, GB | | | | |
| JP 63099285 | A | 19880430 | JP 1986-216854 | 19860912 |
| JP 04064634 | B | 19921015 | | |
| JP 63090588 | A | 19880421 | JP 1986-238535 | 19861006 |
| JP 04076398 | B | 19921203 | | |
| CN 87104448 | A | 19880224 | CN 1987-104448 | 19870528 |
| CN 1016438 | B | 19920429 | | |
| US 5021501 | A | 19910604 | US 1989-445950 | 19891211 |
| US 5021527 | A | 19910604 | US 1989-449442 | 19891211 |
| PRIORITY APPLN. INFO.: | | | JP 1986-122920 | A 19860528 |
| | | | JP 1986-238535 | A 19861006 |
| | | | US 1987-50018 | B3 19870515 |

US 1988-165174

B1 19880307

US 1988-211121

B1 19880621

AB Polymers giving tough, adherent, water- and oil-repellent coatings are prepared from the acrylates $\text{CH}_2:\text{C}(\text{X})\text{CO}_2\text{ZRf}$ [Rf = C3-21 fluoroalkyl (optionally containing O atoms); X = F, CFX_1X_2 (X_1, X_2 = H, F); Z = C1-3 alkylene, $-\text{CH}_2\text{CH}_2\text{N}(\text{R})\text{SO}_2$ (R = alkyl), or $-\text{CH}_2\text{CH}(\text{OR}_1)\text{CH}_2-$ (R_1 = H, Ac)]. Heating $\text{CH}_2:\text{CFCO}_2\text{CH}_2\text{CF}(\text{CF}_3)\text{OC}_3\text{F}_7$ 50, glycidyl methacrylate 4, AIBN 0.5, and $m\text{-C}_6\text{H}_4(\text{CF}_3)_2$ 80 g at 50° for 30 h gave 52 g polymer with intrinsic viscosity [$m\text{-C}_6\text{H}_4(\text{CF}_3)_2$, 30°] 1.12. A 30% $m\text{-C}_6\text{H}_4(\text{CF}_3)_2$ solution of this polymer was diluted to 0.5% with $\text{C}_2\text{Cl}_3\text{F}_3$, brushed on a 3-mm, polyurethane-coated nonwoven fabric, and heated 30 min at 80° to give a coating with contact angle with water and hexadecane 110 and 74° before, and 108 and 52, resp., after, flexing.

IT 113723-01-6 113723-02-7 113723-08-3

RL: USES (Uses)

(oil- and water-repellent finishes, tough and adherent, for textiles)

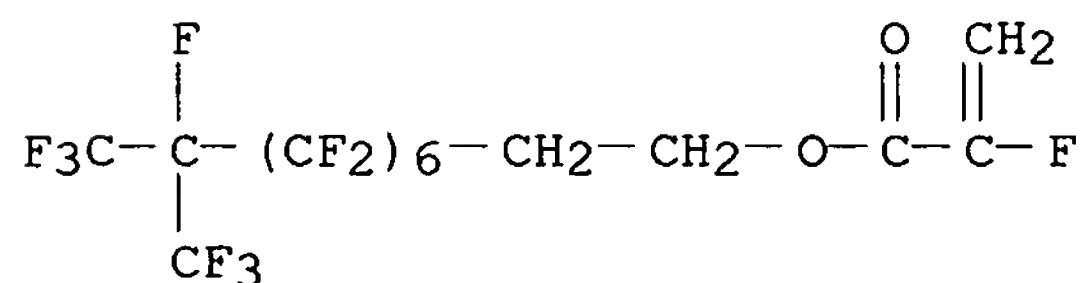
RN 113723-01-6 CAPLUS

CN 2-Propenoic acid, 2-fluoro-, 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl ester, polymer with methyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 113723-00-5

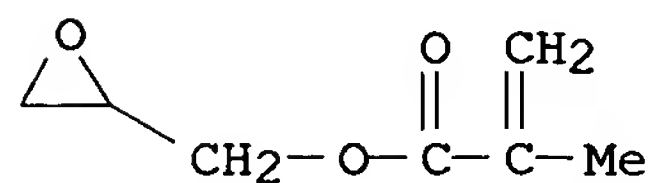
CMF C14 H6 F20 O2



CM 2

CRN 106-91-2

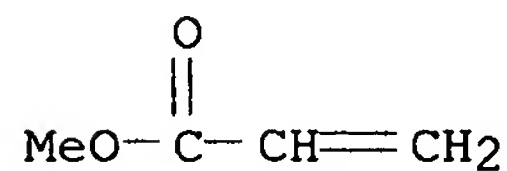
CMF C7 H10 O3



CM 3

CRN 96-33-3

CMF C4 H6 O2



RN 113723-02-7 CAPLUS

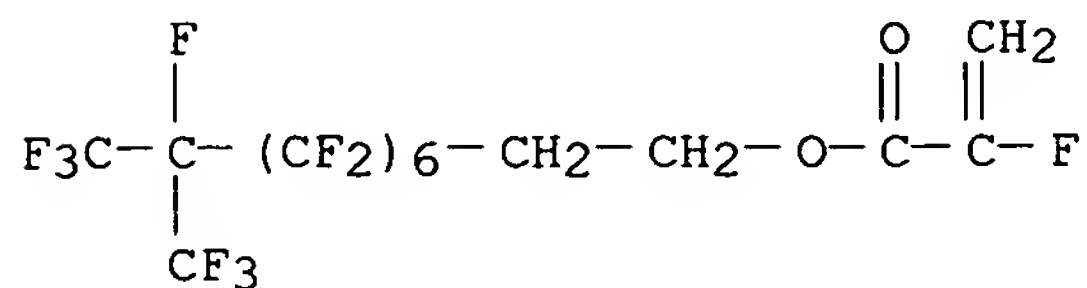
CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl 2-fluoro-2-propenoate, methyl 2-propenoate and

octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 113723-00-5

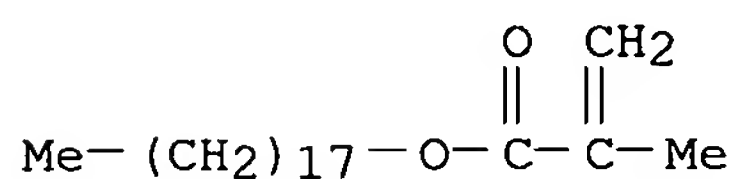
CMF C14 H6 F20 O2



CM 2

CRN 32360-05-7

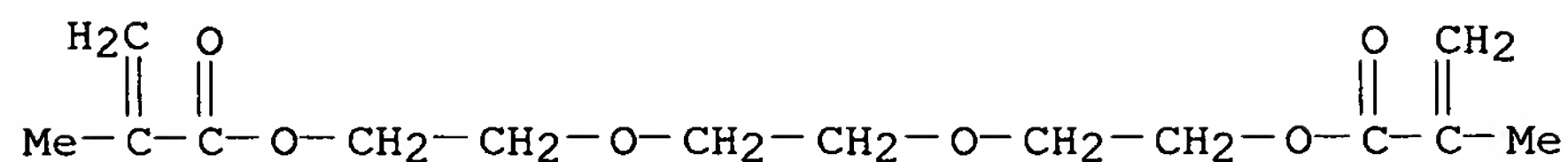
CMF C22 H42 O2



CM 3

CRN 109-16-0

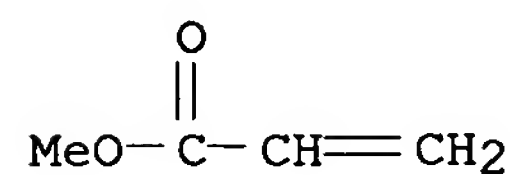
CMF C14 H22 O6



CM 4

CRN 96-33-3

CMF C4 H6 O2



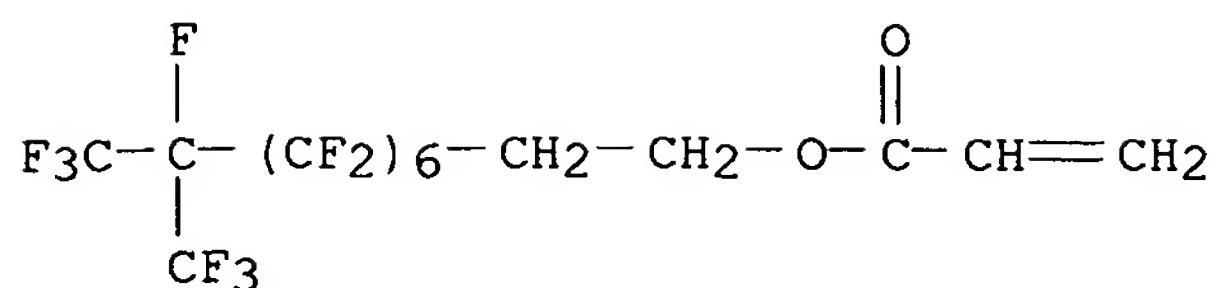
RN 113723-08-3 CAPLUS

CN 2-Propenoic acid, 2-chloro-, cyclohexyl ester, polymer with
3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl
2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX
NAME)

CM 1

CRN 15577-26-1

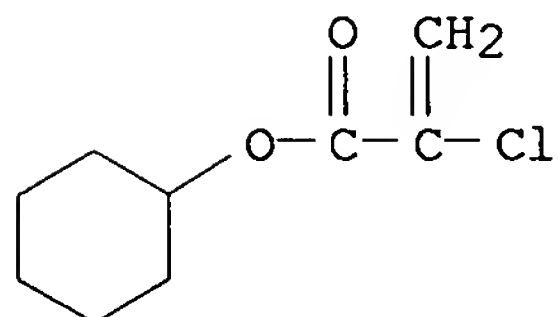
CMF C14 H7 F19 O2



CM 2

CRN 2177-72-2

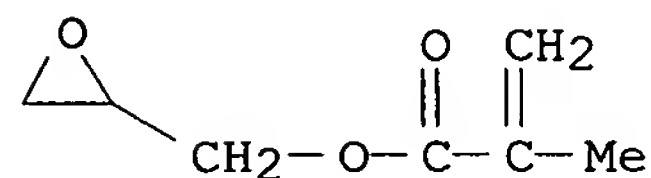
CMF C9 H13 Cl O2



CM 3

CRN 106-91-2

CMF C7 H10 O3



L4 ANSWER 36 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:554811 CAPLUS

DOCUMENT NUMBER: 105:154811

ORIGINAL REFERENCE NO.: 105:24953a,24956a

TITLE: Film-forming composition and film formation

INVENTOR(S): Hashimoto, Yutaka; Kamei, Masayuki

PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

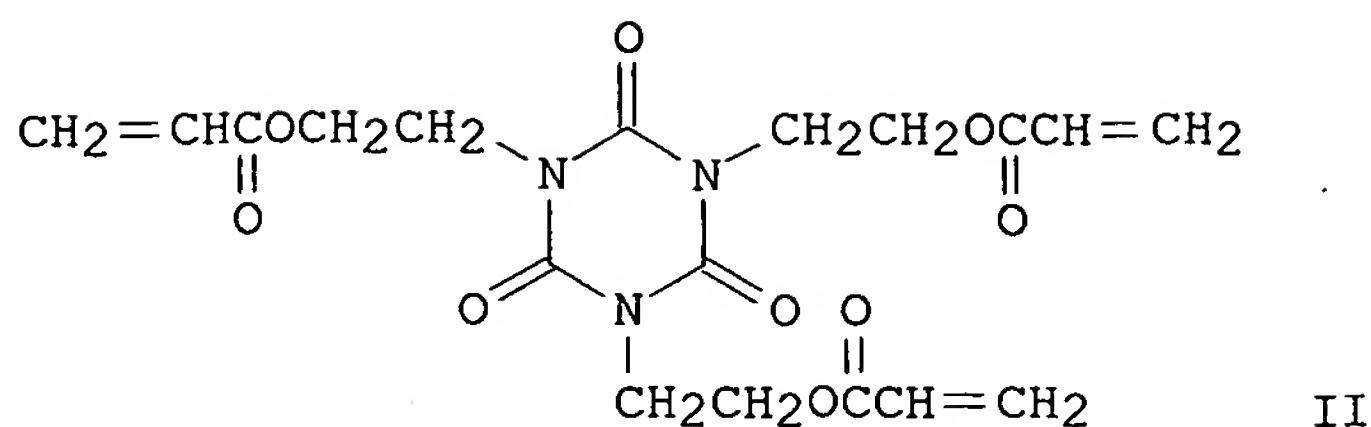
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| JP 61069813 | A | 19860410 | JP 1984-190507 | 19840913 |
| JP 05010393 | B | 19930209 | | |
| PRIORITY APPLN. INFO.: | | | JP 1984-190507 | 19840913 |
| GI | | | | |



AB Film-forming compns. polymerizable with UV light or electron beams comprise 1 part RZaZlO2CCR1:CH2 [R = C4-20 perfluoroalkyl; Z = SO2NR2, CONR2, CH2CH2SO2NR2, O-p-C6H4SO2NR2, O-p-C6H4CONR2, CH2CH2SCH2CH2CONR2, CH2CH2NR2, CH2CHMeNR2, (CH2)3NR2; R1 = H, Me, halo; R2 = H, C1-12 alkyl, ether group-containing alkyl; a = 0, 1; Z1 = (CH2)n; n = 2-4], 4-10,000 parts hydrocarbonyl acrylates, and 0.005-5% (per total composition) oil-soluble

F-containing

surfactants, giving films with good hardness and corrosion resistance. Thus, a mixture of C8F17SO2NEtCH2CH2O2CCH:CH2 (I) 0.050, N,N',N''-tris(2-hydroxyethyl)isocyanurate triacrylate 96.945, 3:7 C8F17SO2NPrCH2CH2O2CCH:CH2-H2C:CMeco2(CH2)15CHMe2 copolymer (mol. weight 4000) 0.005; and benzophenone 3.000 parts was coated on steel, dried, and cured in UV light to give a film with surface hardness >6H, contact angle 72°, and good corrosion resistance, vs. 3H, 42, and poor, resp., without I.

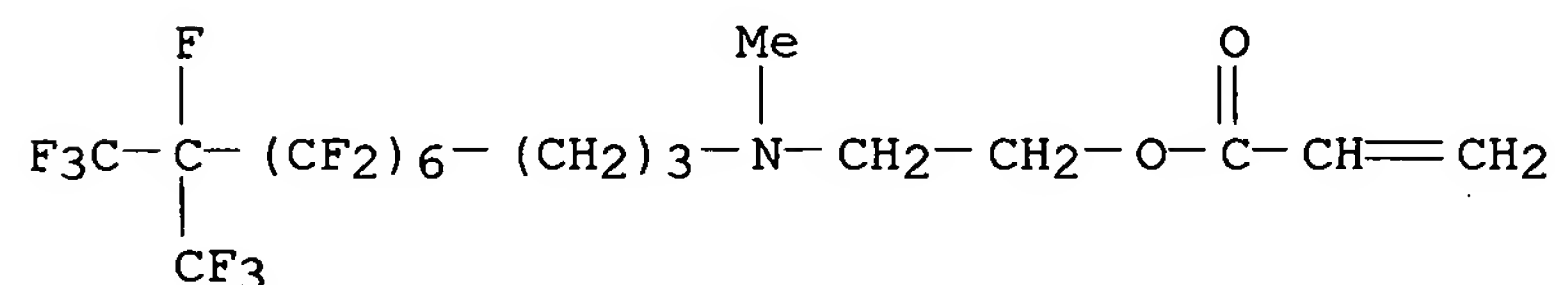
IT 104595-34-8D, polymers

RL: USES (Uses)

(for corrosion-resistant coatings)

RN 104595-34-8 CAPLUS

CN 2-Propenoic acid, 2-[[4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)undecyl]methylamino]ethyl ester (CA INDEX NAME)



L4 ANSWER 37 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:543602 CAPLUS

DOCUMENT NUMBER: 105:143602

ORIGINAL REFERENCE NO.: 105:23005a,23008a

TITLE: Etchant composition

INVENTOR(S): Fujii, Tsuneo; Deguchi, Takayuki; Tamaru, Shinji

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| EP 182306 | A2 | 19860528 | EP 1985-114526 | 19851115 |
| EP 182306 | A3 | 19880427 | | |
| EP 182306 | B1 | 19910724 | | |
| R: DE, FR, GB | | | | |
| JP 61270381 | A | 19861129 | JP 1985-259205 | 19851118 |

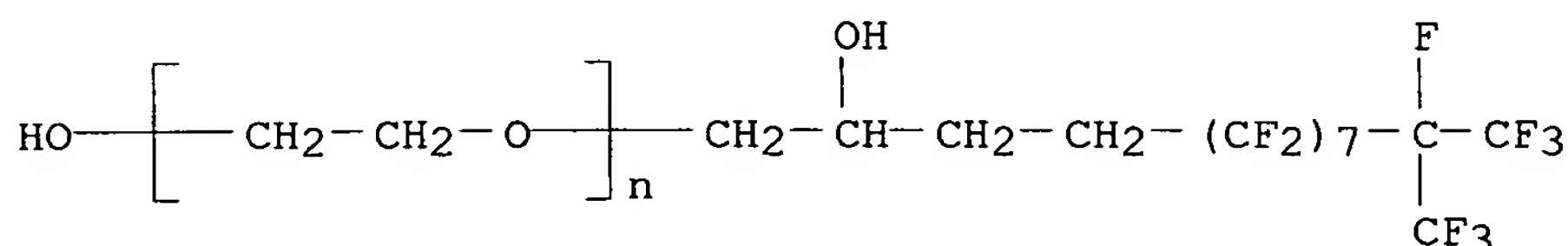
JP 63045461 B 19880909
 US 4725375 A 19880216 US 1986-908943 19860916
 PRIORITY APPLN. INFO.: JP 1984-242648 A 19841117
 US 1985-798407 A2 19851115

AB An etchant for etching a Cr or Cr oxide layer (e.g., in the preparation of masks for transferring patterns to semiconductor wafers) is composed of a Ce(IV) salt, a nonionic or anionic F-containing surfactant, H₂O, and, optionally, ≥ 1 of HClO₄, HOAc, H₂SO₄, HNO₃, HCl, and their salts. The etchant can homogeneously etch a resist pattern having both wide and narrow gaps on a Cr or Cr oxide layer.

IT 148919-89-5
 RL: USES (Uses)
 (etchant containing, for etching chromium or chromium oxide for mask preparation)

RN 148919-89-5 CAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-octadecafluoro-2-hydroxy-12-(trifluoromethyl)tridecyl]- ω -hydroxy- (CA INDEX NAME)



L4 ANSWER 38 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:150604 CAPLUS

DOCUMENT NUMBER: 104:150604

ORIGINAL REFERENCE NO.: 104:23849a,23852a

TITLE: Fluoroelastomer composition

INVENTOR(S): Kawachi, Shoji; Furukawa, Yasuyoshi; Ueta, Yutaka; Tanaka, Hiroyuki; Hirai, Masaru

PATENT ASSIGNEE(S): Daikin Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------------|------|----------|-----------------|----------|
| EP 168033 | A2 | 19860115 | EP 1985-108519 | 19850709 |
| EP 168033 | A3 | 19870325 | | |
| EP 168033 | B1 | 19901003 | | |
| R: DE, FR, GB, IT | | | | |
| JP 61021149 | A | 19860129 | JP 1984-142985 | 19840709 |
| JP 01016431 | B | 19890324 | | |
| US 5041480 | A | 19910820 | US 1985-753065 | 19850709 |

PRIORITY APPLN. INFO.: JP 1984-142985 A 19840709

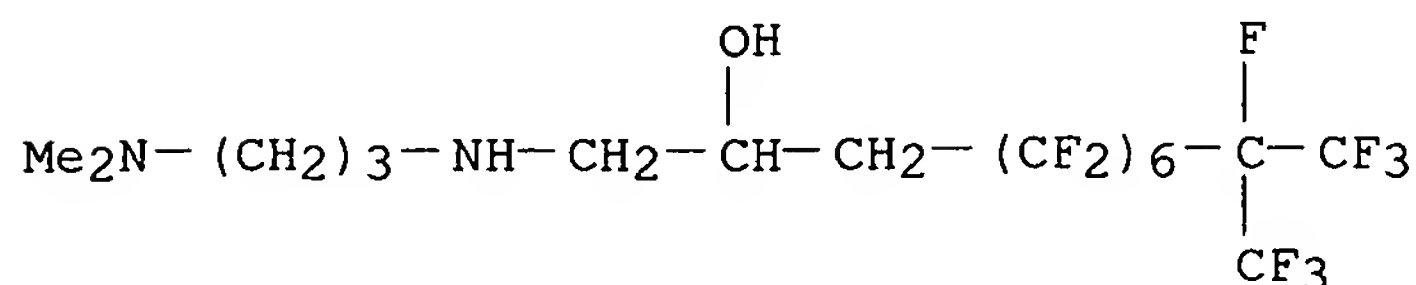
AB Mixts. of fluoro rubbers, F-containing surfactants, and optionally vulcanizing agents have good processability and mold release. Thus, a mixture of C₃F₆-CH₂:CF₂ copolymer (Daiel G-755) 100, carbon black 20, MgO 3, Ca(OH)₂ 6, and F-containing surfactant 1 part was vulcanized to O-rings at 160° and >35 kg/cm². The O-rings had good mold release and freedom from mold contamination, compared with poor with no surfactant.

IT 73353-26-1 78346-63-1

RL: USES (Uses)
 (mold release agents, for fluoro rubbers)

RN 73353-26-1 CAPLUS

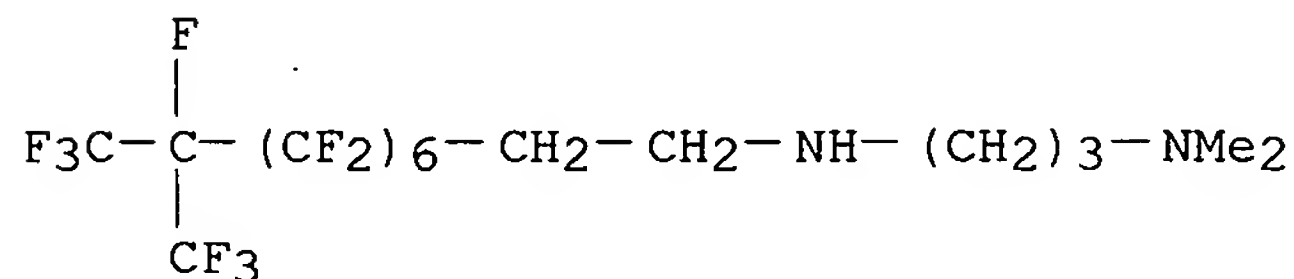
CN 2-Undecanol, 1-[[3-(dimethylamino)propyl]amino]-
4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)-
(CA INDEX NAME)



RN 78346-63-1 CAPLUS
CN 1,3-Propanediamine, N'-[3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-
9-(trifluoromethyl)decyl]-N,N-dimethyl-, monoacetate (9CI) (CA INDEX
NAME)

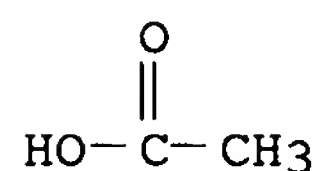
CM 1

CRN 74130-91-9
CMF C16 H17 F19 N2



CM 2

CRN 64-19-7
CMF C2 H4 O2



L4 ANSWER 39 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1985:213758 CAPLUS
DOCUMENT NUMBER: 102:213758
ORIGINAL REFERENCE NO.: 102:33371a,33374a
TITLE: Etchant composition
INVENTOR(S): Naonori, Enjo; Koji, Tamura
PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| EP 133584 | A1 | 19850227 | EP 1984-109546 | 19840810 |
| EP 133584 | B1 | 19880629 | | |
| R: DE, FR, GB | | | | |
| JP 60039176 | A | 19850228 | JP 1983-147213 | 19830810 |

JP 62019509 B 19870428
 US 4582624 A 19860415 US 1984-639185 19840809
 PRIORITY APPLN. INFO.: JP 1983-147213 A 19830810
 OTHER SOURCE(S): MARPAT 102:213758

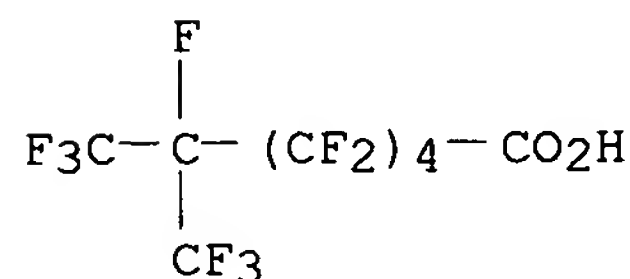
AB An aqueous etchant composition intended for use with an oxidized Si film in semiconductor technol. comprises HF, NH₄F, and a surfactant (0.0001-1 weight %) consisting of F-containing carboxylic acids and their salts. The F-containing

carboxylic acid is of the formula R_fCOOH, wherein R_f is a F-containing C₃-20 hydrocarbon group. If a salt is used, the base has the formula NR₁R₂R₃, wherein R₁, R₂, and R₃ are each H, C₁-C₅ alkyl or hydroxy C₁-C₅ alkyl. For example, H(CF₂)₆COOH surfactant was added to 50% HF, 40% aqueous NH₄, and H₂O to produce an etchant with decreased surface tension, does not cause clouding or turbidity, or form sediments.

IT 19742-57-5
 RL: USES (Uses)
 (surfactant, in aqueous ammonium fluoride-hydrogen fluoride etchant for semiconductor technol.)

RN 19742-57-5 CAPLUS

CN Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, ammonium salt (9CI) (CA INDEX NAME)



● NH₃

L4 ANSWER 40 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1980:496173 CAPLUS
 DOCUMENT NUMBER: 93:96173
 ORIGINAL REFERENCE NO.: 93:15439a,15442a
 TITLE: Epoxy resin composition
 INVENTOR(S): Ohmori, Akira
 PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd., Japan
 SOURCE: Ger. Offen., 42 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| DE 2941473 | A1 | 19800424 | DE 1979-2941473 | 19791012 |
| DE 2941473 | C2 | 19820624 | | |
| JP 55054324 | A | 19800421 | JP 1978-126505 | 19781014 |
| JP 57011572 | B | 19820305 | | |
| JP 55054325 | A | 19800421 | JP 1978-126507 | 19781014 |
| JP 57011573 | B | 19820305 | | |
| US 4284746 | A | 19810818 | US 1979-84436 | 19791012 |
| FR 2438670 | A1 | 19800509 | FR 1979-25607 | 19791015 |
| FR 2438670 | B1 | 19850927 | | |
| GB 2032925 | A | 19800514 | GB 1979-35665 | 19791015 |
| GB 2032925 | B | 19830112 | | |
| PRIORITY APPLN. INFO.: | | | JP 1978-126505 | A 19781014 |

AB Hardening mixts. of epoxy resins and $\text{RNHCH}_2\text{CH}(\text{OH})\text{CH}_2(\text{CF}_2)_n\text{CF}(\text{CF}_3)_2$ (I) (R = Bu, $\text{H}_2\text{NCH}_2\text{CH}_2$, p- $\text{H}_2\text{NC}_6\text{H}_4\text{CH}_2\text{C}_6\text{H}_4$, $\text{H}(\text{NHCH}_2\text{CH}_2)_4$; n = 0-8) with amines or anhydrides gives products resistant to water, oils, and staining. Thus, Epikote 828 [25068-38-6] 10, I (R = Bu, n = 6) [74276-06-5] 0.2, and EtOH 50 parts are heated at 50-60° and the product is cured with 7 phr $\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2$. The contact angles of the hardened resin with water and $\text{C}_{16}\text{H}_{34}$ are 98° and 52°, resp., compared with 71° and <10°, resp., in the absence of I.

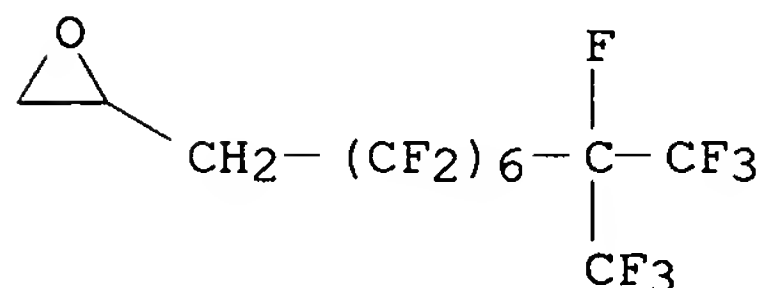
IT 41925-33-1 74276-06-5 74276-07-6
 74276-08-7 74276-09-8 74276-10-1
 74276-11-2 74276-12-3 74276-13-4
 74276-14-5 74276-15-6 74276-16-7
 74276-17-8 74276-18-9 74276-19-0
 74276-20-3 74276-21-4 74276-22-5
 74276-23-6 74276-24-7

RL: USES (Uses)

(oil- and waterproofing agents, for epoxy resins)

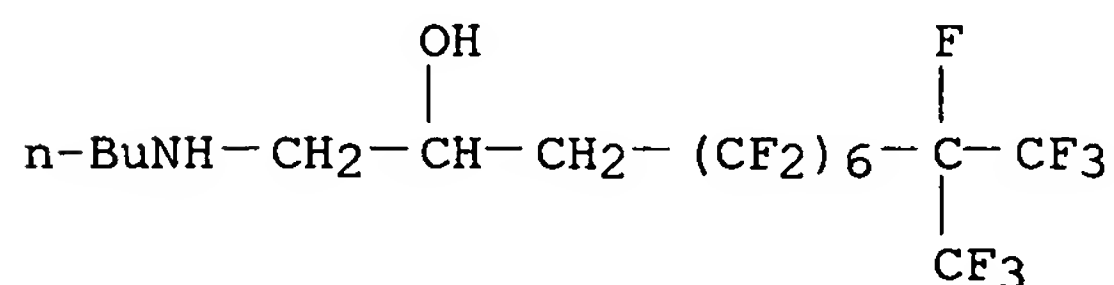
RN 41925-33-1 CAPLUS

CN Oxirane, 2-[2,2,3,3,4,4,5,5,6,6,7,7,8,9,9,9-hexadecafluoro-8-(trifluoromethyl)nonyl]- (CA INDEX NAME)



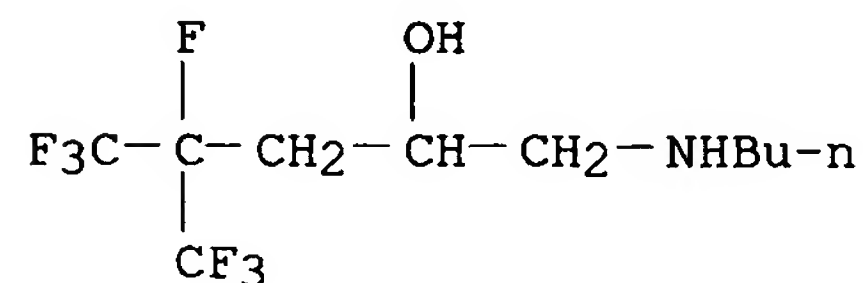
RN 74276-06-5 CAPLUS

CN 2-Undecanol, 1-(butylamino)-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)- (CA INDEX NAME)



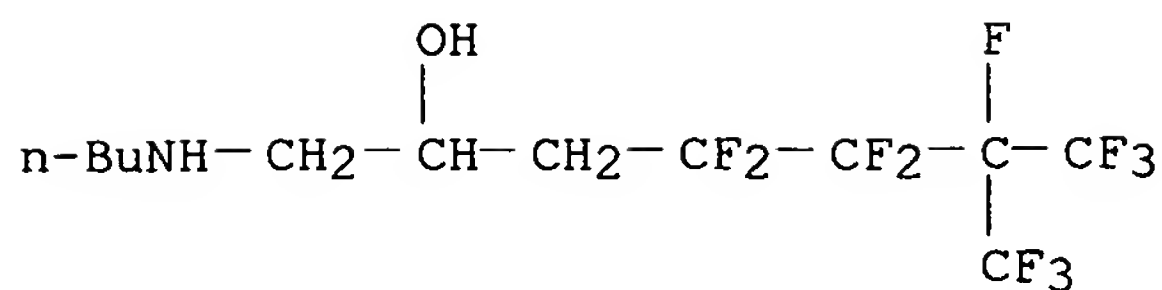
RN 74276-07-6 CAPLUS

CN 2-Pentanol, 1-(butylamino)-4,5,5,5-tetrafluoro-4-(trifluoromethyl)- (CA INDEX NAME)



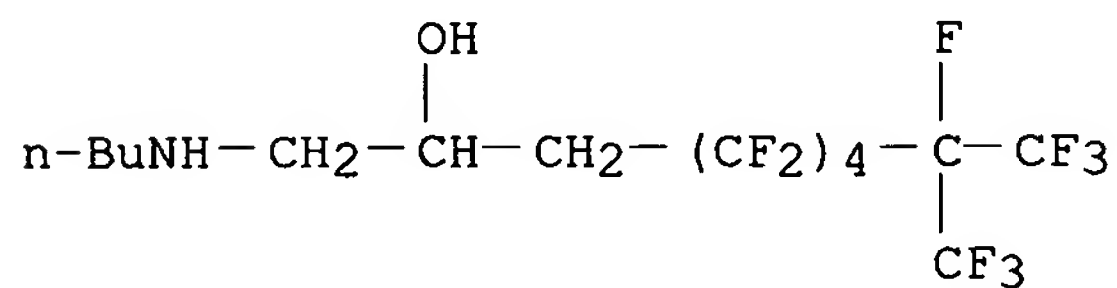
RN 74276-08-7 CAPLUS

CN 2-Heptanol, 1-(butylamino)-4,4,5,5,6,7,7,7-octafluoro-6-(trifluoromethyl)- (CA INDEX NAME)



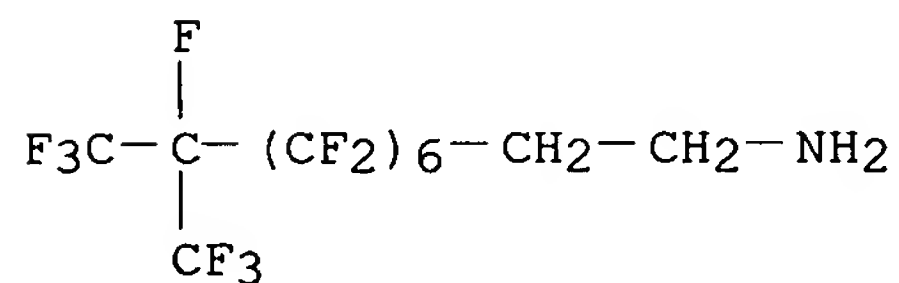
RN 74276-09-8 CAPLUS

CN 2-Nonanol, 1-(butylamino)-4,4,5,5,6,6,7,7,8,9,9,9-dodecafluoro-8-(trifluoromethyl)- (CA INDEX NAME)



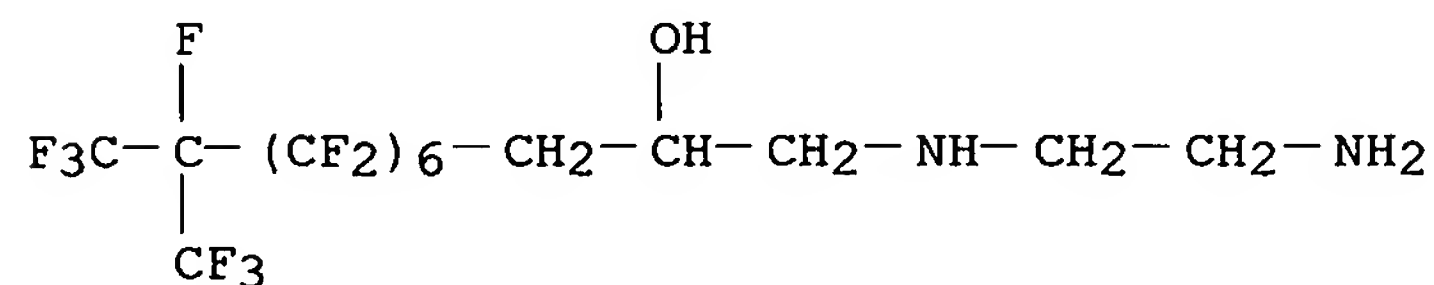
RN 74276-10-1 CAPLUS

CN 1-Decanamine, 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)- (CA INDEX NAME)



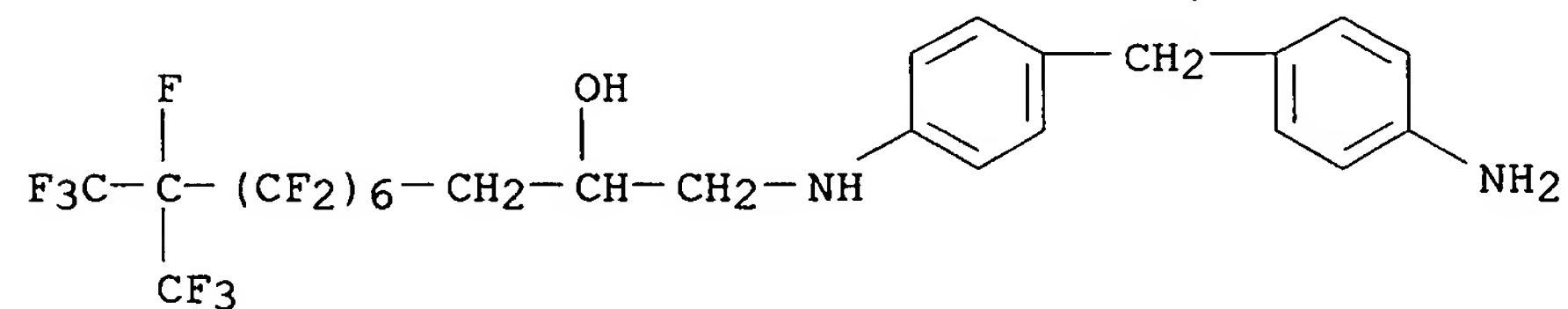
RN 74276-11-2 CAPLUS

CN 2-Undecanol, 1-[(2-aminoethyl)amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)- (CA INDEX NAME)



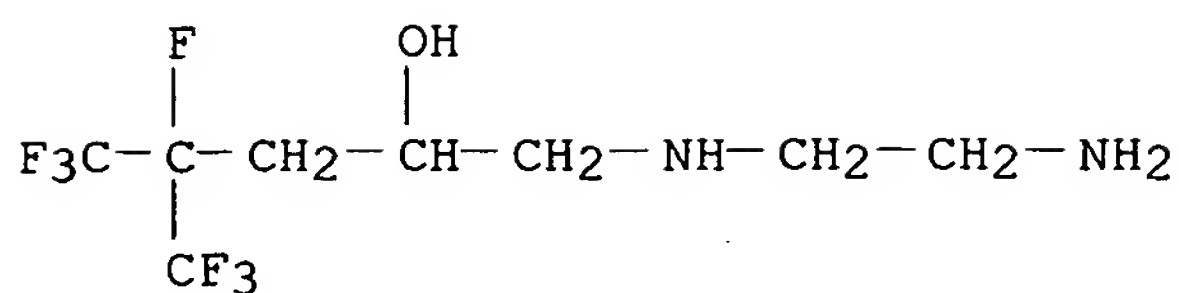
RN 74276-12-3 CAPLUS

CN 2-Undecanol, 1-[[4-[(4-aminophenyl)methyl]phenyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)- (CA INDEX NAME)

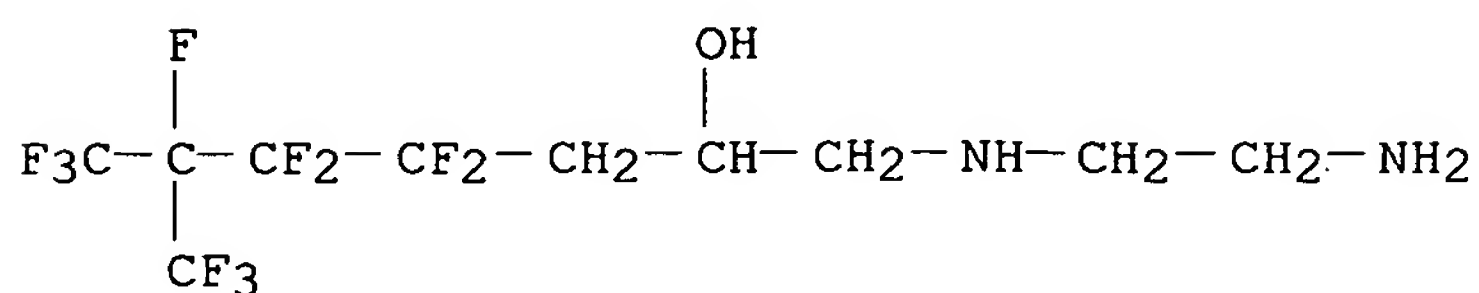


RN 74276-13-4 CAPLUS

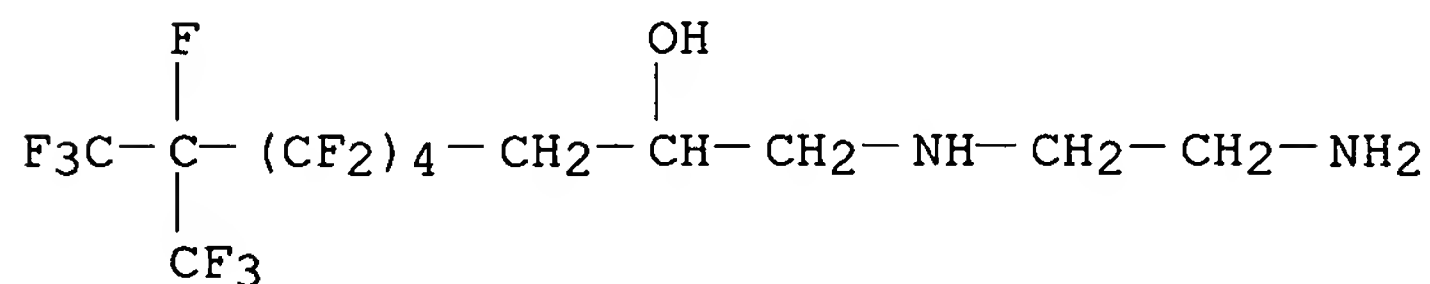
CN 2-Pentanol, 1-[(2-aminoethyl)amino]-4,5,5,5-tetrafluoro-4-(trifluoromethyl)- (CA INDEX NAME)



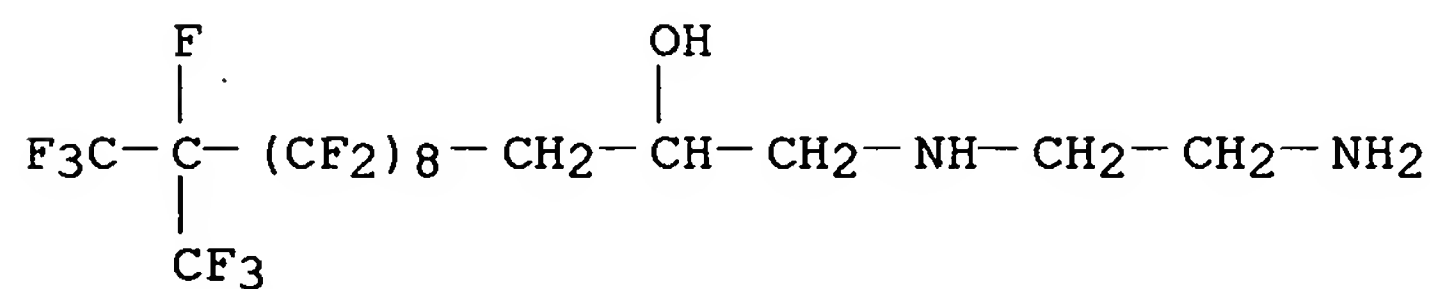
RN 74276-14-5 CAPLUS
 CN 2-Heptanol, 1-[(2-aminoethyl)amino]-4,4,5,5,6,7,7,7-octafluoro-6-(trifluoromethyl)- (CA INDEX NAME)



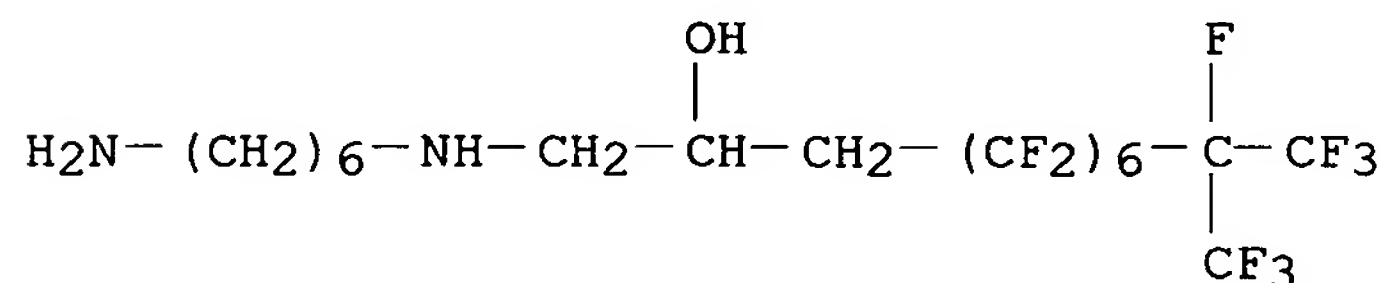
RN 74276-15-6 CAPLUS
 CN 2-Nonanol, 1-[(2-aminoethyl)amino]-4,4,5,5,6,6,7,7,8,9,9,9-dodecafluoro-8-(trifluoromethyl)- (CA INDEX NAME)



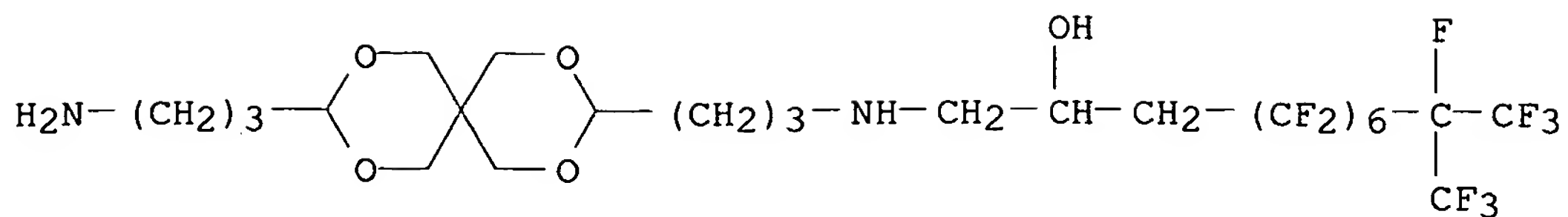
RN 74276-16-7 CAPLUS
 CN 2-Tridecanol, 1-[(2-aminoethyl)amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,13,13,13-eicosafluoro-12-(trifluoromethyl)- (CA INDEX NAME)



RN 74276-17-8 CAPLUS
 CN 2-Undecanol, 1-[(6-aminoethyl)amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)- (CA INDEX NAME)

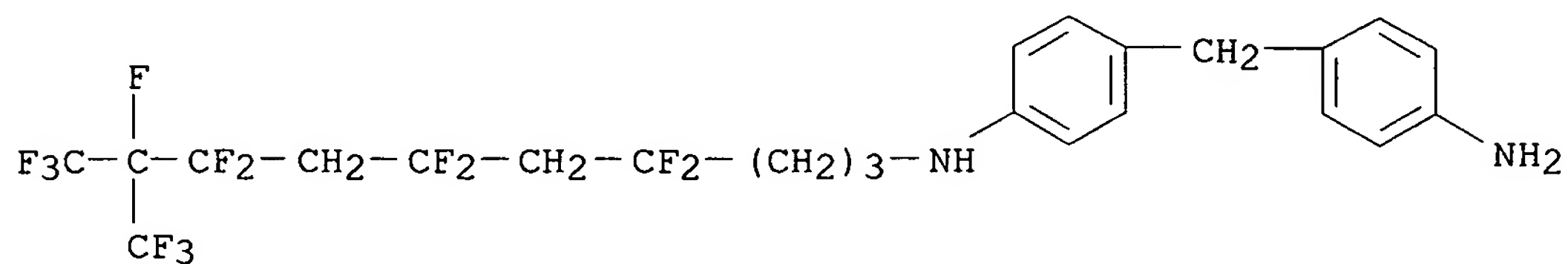


RN 74276-18-9 CAPLUS
 CN 2-Undecanol, 1-[[3-[9-(3-aminopropyl)-2,4,8,10-tetraoxaspiro[5.5]undec-3-yl]propyl]amino]-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)- (9CI) (CA INDEX NAME)



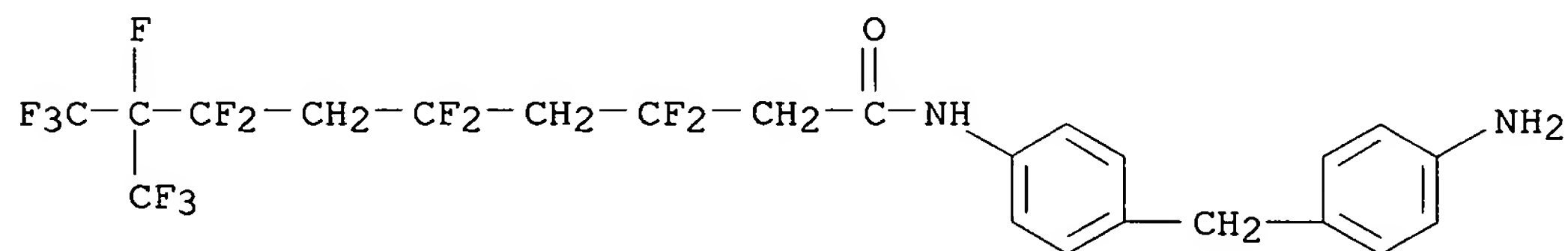
RN 74276-19-0 CAPLUS

CN Benzenamine, 4-[(4-aminophenyl)methyl]-N-[4,4,6,6,8,8,9,10,10,10-decafluoro-9-(trifluoromethyl)decyl]- (CA INDEX NAME)



RN 74276-20-3 CAPLUS

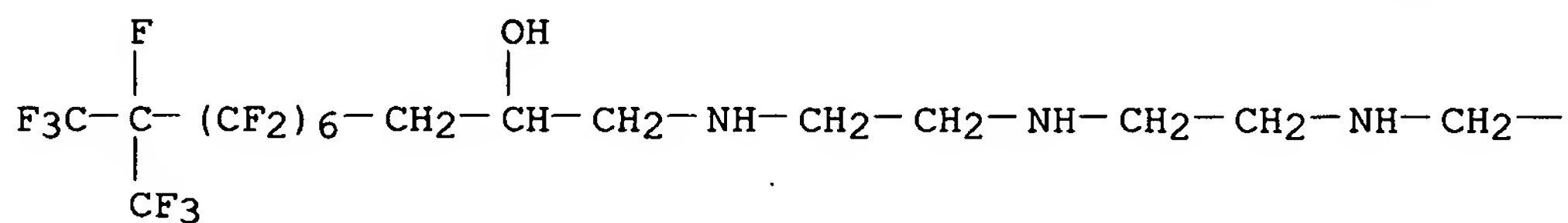
CN Nonanamide, N-[4-[(4-aminophenyl)methyl]phenyl]-3,3,5,5,7,7,8,9,9,9-decafluoro-8-(trifluoromethyl)- (CA INDEX NAME)



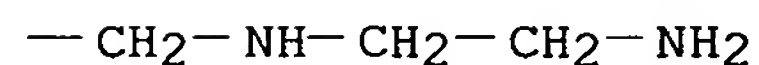
RN 74276-21-4 CAPLUS

CN 3,6,9,12-Tetraazatricosan-14-ol, 1-amino-16,16,17,17,18,18,19,19,20,20,21,21,22,23,23,23-hexadecafluoro-22-(trifluoromethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



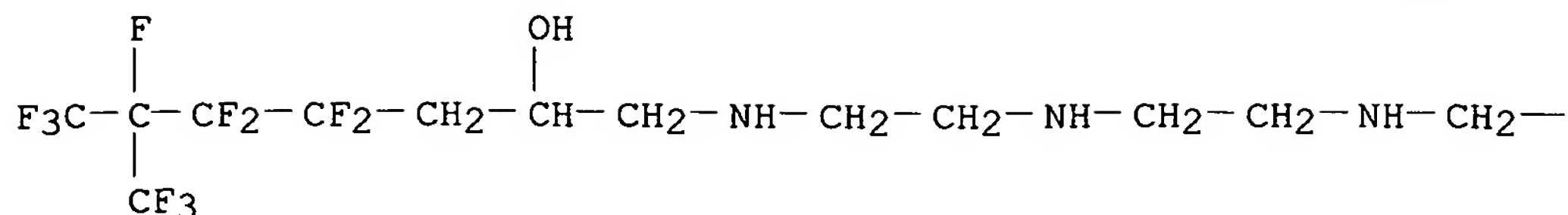
PAGE 1-B



RN 74276-22-5 CAPLUS

CN 3,6,9,12-Tetraazanonadecan-14-ol, 1-amino-16,16,17,17,18,19,19,19-octafluoro-18-(trifluoromethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

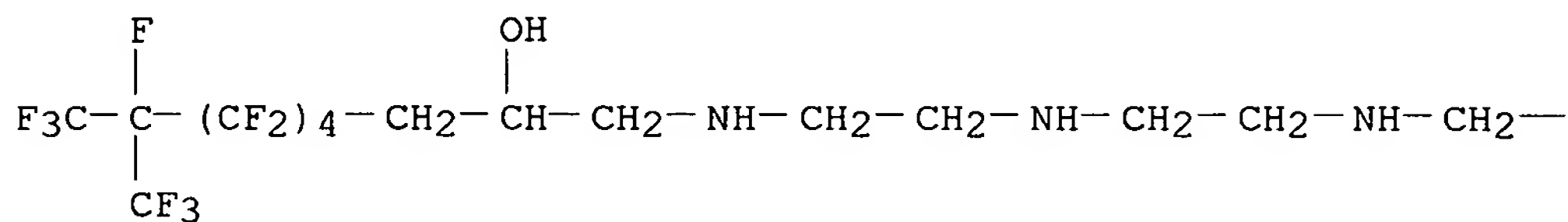


PAGE 1-B



RN 74276-23-6 CAPLUS
CN 3,6,9,12-Tetraazaheneicosan-14-ol, 1-amino-16,16,17,17,18,18,19,19,20,21,21,21-dodecafluoro-20-(trifluoromethyl)- (9CI) (CA INDEX NAME)

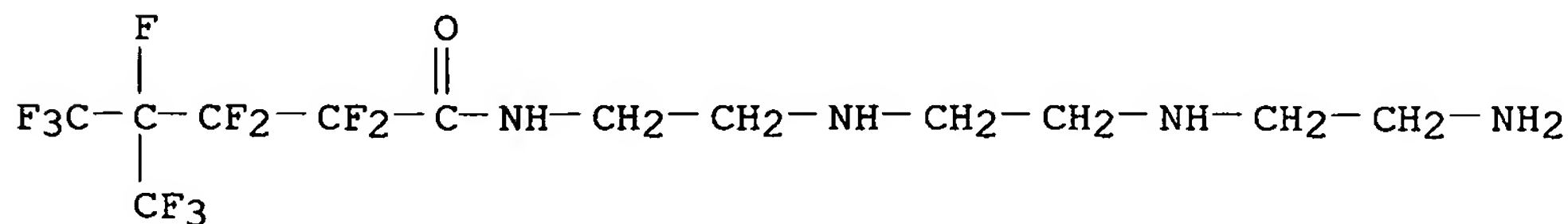
PAGE 1-A



PAGE 1-B



RN 74276-24-7 CAPLUS
CN Pentanamide, N-[2-[[2-[(2-aminoethyl)amino]ethyl]amino]ethyl]-2,2,3,3,4,5,5,5-octafluoro-4-(trifluoromethyl)- (CA INDEX NAME)



L4 ANSWER 41 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1980:447875 CAPLUS
DOCUMENT NUMBER: 93:47875
ORIGINAL REFERENCE NO.: 93:7935a,7938a
TITLE: Epoxy resin composition
INVENTOR(S): Ohmori, Akira
PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd., Japan
SOURCE: Ger. Offen., 19 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| DE 2939550 | A1 | 19800417 | DE 1979-2939550 | 19790928 |
| DE 2939550 | C2 | 19820616 | | |
| JP 55045774 | A | 19800331 | JP 1978-120670 | 19780929 |
| JP 55043015 | B | 19801104 | | |
| US 4267302 | A | 19810512 | US 1979-78827 | 19790925 |
| FR 2437423 | A1 | 19800425 | FR 1979-24300 | 19790928 |
| FR 2437423 | B1 | 19850823 | | |
| GB 2031899 | A | 19800430 | GB 1979-33796 | 19790928 |
| GB 2031899 | B | 19821124 | | |

PRIORITY APPLN. INFO.:

JP 1978-120670 A 19780929

AB Polyepoxides such as 1,4-butanediol diglycidyl ether [2425-79-8] or 4,4,5,5,6,6,7,7-octafluoro-1,9-decadiene diepoxide (I) [791-22-0] are mixed with fluoroalkylepoxides and curing agents to give resins with good resistance to oil, water, and soiling. Thus, 100 parts I containing 5 parts (CF₃)₂CF(CF₂)₈CH₂CH:CH₂ epoxide [47795-34-6] and 3 parts BF₃.H₂NEt are hardened on Al for 2 h at 150° to give a resin with contact angle for H₂O and C₁₆H₃₄ 112 and 70°, resp.

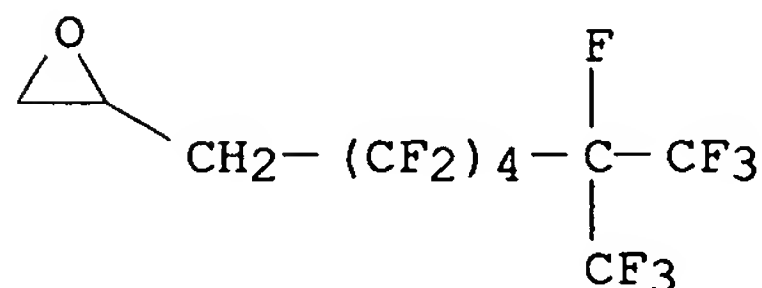
IT 24564-77-0 41925-33-1 47795-34-6
54009-81-3 74328-58-8

RL: USES (Uses)

(epoxy resins containing, oil- and water-resistant)

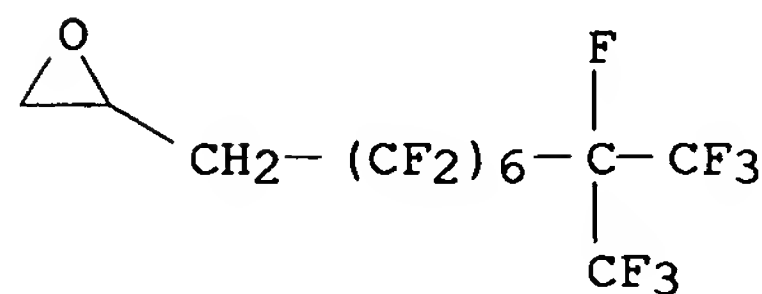
RN 24564-77-0 CAPLUS

CN Oxirane, [2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)heptyl]- (9CI) (CA INDEX NAME)



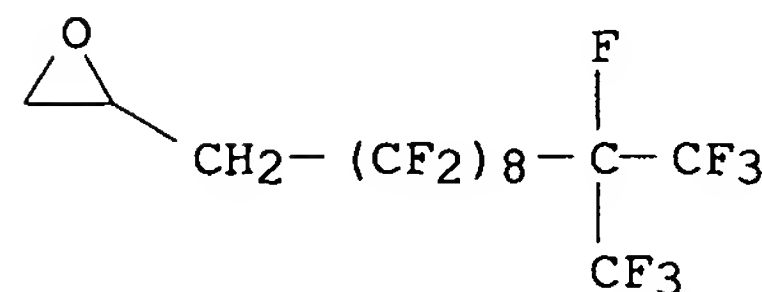
RN 41925-33-1 CAPLUS

CN Oxirane, 2-[2,2,3,3,4,4,5,5,6,6,7,7,8,9,9,9-hexadecafluoro-8-(trifluoromethyl)nonyl]- (CA INDEX NAME)



RN 47795-34-6 CAPLUS

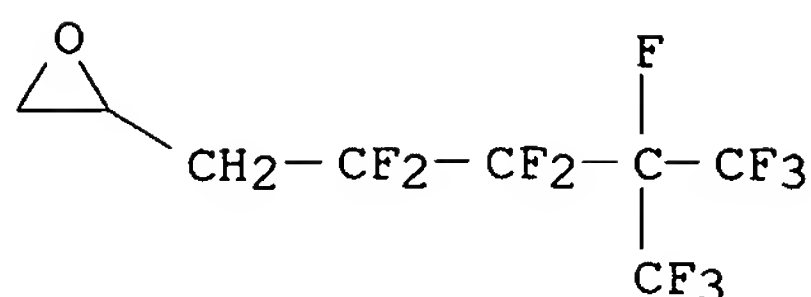
CN Oxirane, [2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-eicosafluoro-10-(trifluoromethyl)undecyl]- (9CI) (CA INDEX NAME)



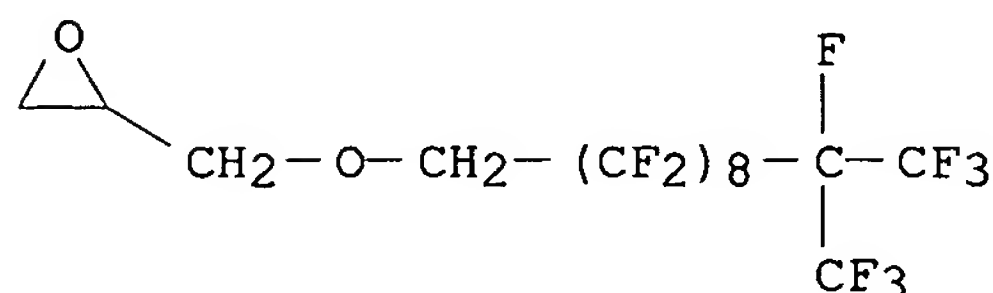
RN 54009-81-3 CAPLUS

CN Oxirane, 2-[2,2,3,3,4,5,5,5-octafluoro-4-(trifluoromethyl)pentyl]- (CA

INDEX NAME)



RN 74328-58-8 CAPLUS
CN Oxirane, [[[2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-eicosaf fluoro-10-(trifluoromethyl)undecyl]oxy]methyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 42 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1976:166200 CAPLUS
DOCUMENT NUMBER: 84:166200
ORIGINAL REFERENCE NO.: 84:26987a,26990a
TITLE: Oil and water repellent composition
INVENTOR(S): Kirimoto, Kazusuke; Hayashi, Takao
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
SOURCE: U. S. Publ. Pat. Appl. B, 6 pp.
CODEN: USXXDP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| US 470576 | I5 | 19760224 | US 1974-470576 | 19740516 |
| US 3997507 | A | 19761214 | | |

PRIORITY APPLN. INFO.: US 1972-291335 A2 19720922
AB Oil-and water-repellent compns., providing improved oil, water, and stain repellency without any adverse effect on the hand of the fabric, are prepared from a copolymer of $\geq 25\%$ fluoroalkyl monomer and an alkyl vinyl ether, CH₂:CHOR (where R = a halo substituted C1-7 alkyl group). Thus, an oil- and water-repellent composition was prepared by dissolving 1 g of a copolymer [57069-60-0] prepared from CH₂:CHCO₂(CH₂)₃(CF₂)₆CF(CF₃)₂ 65, vinyl chloride 28, and bromomethyl vinyl ether 7% in 99 g of a solvent consisting of 15% CH₂FCCl₃ and 85% MeCCl₃. A 65:35 polyester-cotton fabric was dipped in the copolymer solution for 2 min, squeezed, and dried 30 min at room temperature. The treated fabric had an excellent hand with high ratings of oil, water, and stain repellency.

IT 52856-72-1 57069-60-0

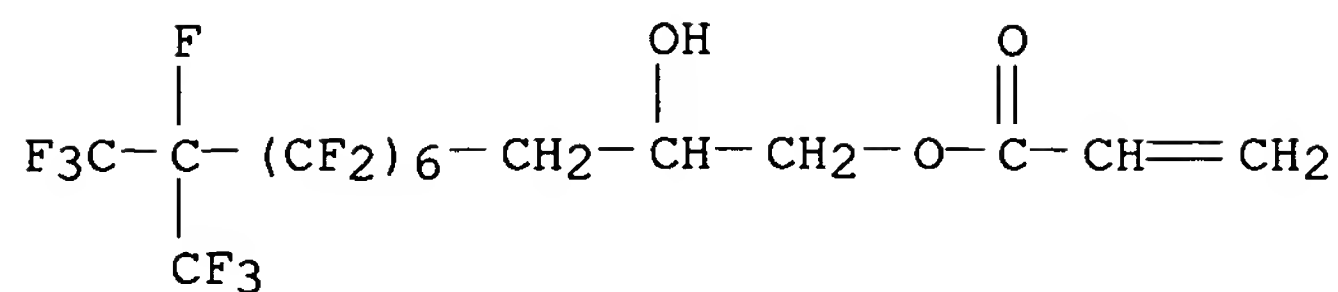
RL: USES (Uses)

(oilproofing and waterproofing compns., for textiles)

RN 52856-72-1 CAPLUS

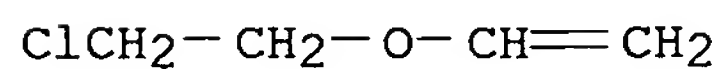
CN 2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-2-hydroxy-10-(trifluoromethyl)undecyl ester, polymer with chloroethene and (2-chloroethoxy)ethene (9CI) (CA INDEX NAME)

CRN 24407-09-8
CMF C15 H9 F19 O3



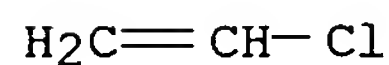
CM 2

CRN 110-75-8
CMF C4 H7 Cl O



CM 3

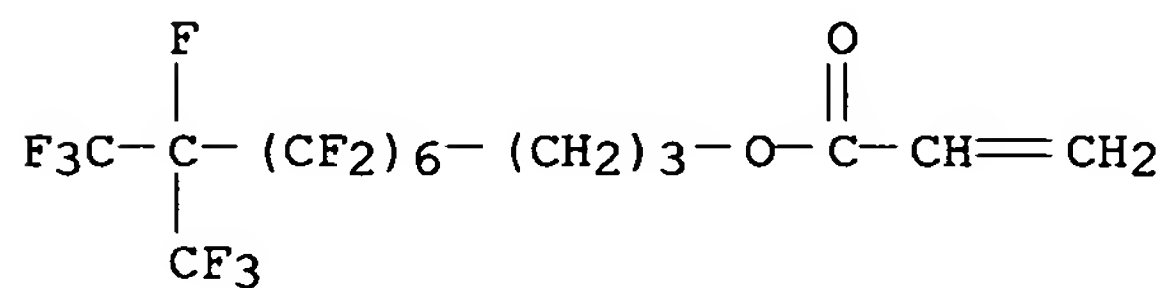
CRN 75-01-4
CMF C2 H3 Cl



RN 57069-60-0 CAPLUS
CN 2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)undecyl ester, polymer with (bromomethoxy)ethene and chloroethene (9CI) (CA INDEX NAME)

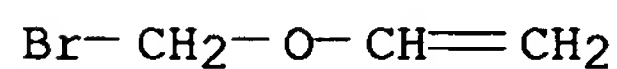
CM 1

CRN 52901-82-3
CMF C15 H9 F19 O2



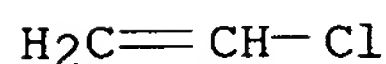
CM 2

CRN 52856-67-4
CMF C3 H5 Br O



CM 3

CRN 75-01-4
CMF C2 H3 Cl

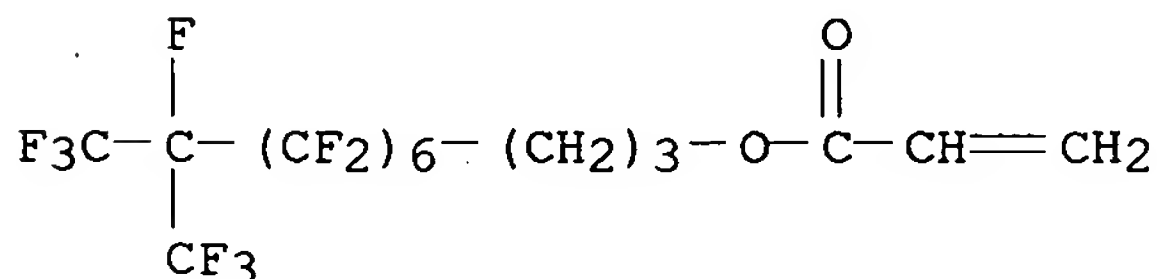


L4 ANSWER 43 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1975:595145 CAPLUS
DOCUMENT NUMBER: 83:195145
ORIGINAL REFERENCE NO.: 83:30713a,30716a
TITLE: Water- and oil-repellent composition for
textiles
INVENTOR(S): Kirimoto, Kazusuke; Hayashi, Takao
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan
SOURCE: Jpn. Tokkyo Koho, 8 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|---|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| JP 49045758 | B | 19741205 | JP 1969-33249 | 19690501 |
| PRIORITY APPLN. INFO.: | | | JP 1969-33249 | 19690501 |
| AB | The title composition, prepared from a copolymer containing a monomer having fluoroalkyl group, a comonomer $\text{CH}_2=\text{CHOR}$ ($\text{R} = \text{Cl}-3$ haloalkyl), and vinyl chloride, is used for water- and oil-resistant finishes, with added advantages of improved stain-proofness and no impairment to the hand. Thus, a cotton-polyester fabric is immersed 2 min in a solution of 7:65:28 bromomethyl vinyl ether-4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)undecyl acrylate-vinyl chloride polymer [57069-60-0] in 15:85 $\text{C}_2\text{Cl}_3\text{F}-\text{CH}_3\text{CCl}_3$, and dried for 30 min at room temperature. The treated fabric showed good softness with satisfactory water- and oil-repellency. | | | |
| IT | 57069-60-0 RL: USES (Uses) (oil- and water-repellents, for textiles) | | | |
| RN | 57069-60-0 CAPLUS | | | |
| CN | 2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-10-(trifluoromethyl)undecyl ester, polymer with (bromomethoxy)ethene and chloroethene (9CI) (CA INDEX NAME) | | | |

CM 1

CRN 52901-82-3
CMF C15 H9 F19 O2



CM 2

CRN 52856-67-4
CMF C3 H5 Br O

Br-CH₂-O-CH=CH₂

CM 3

CRN 75-01-4
CMF C2 H3 C1

H₂C=CH-Cl

L4 ANSWER 44 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1975:534506 CAPLUS
DOCUMENT NUMBER: 83:134506
ORIGINAL REFERENCE NO.: 83:21150h,21151a
TITLE: Film-forming fire fighting composition
INVENTOR(S): Chiesa, Peter J., Jr.
PATENT ASSIGNEE(S): National Foam System, Inc.
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 13
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|-------------|
| US 3849315 | A | 19741119 | US 1972-254404 | 19720518 |
| JP 49025796 | A | 19740307 | JP 1972-86735 | 19720831 |
| JP 52033920 | B | 19770831 | | |
| AU 7355172 | A | 19741107 | AU 1973-55172 | 19730503 |
| GB 1431982 | A | 19760414 | GB 1973-23548 | 19730517 |
| CA 994539 | A1 | 19760810 | CA 1973-171787 | 19730518 |
| US 3957657 | A | 19760518 | US 1973-369584 | 19730613 |
| US 4038195 | A | 19770726 | US 1974-525175 | 19741119 |
| US 4060132 | A | 19771129 | US 1975-557757 | 19750312 |
| US 4060489 | A | 19771129 | US 1976-670252 | 19760325 |
| US 4149599 | A | 19790417 | US 1977-808462 | 19770621 |
| US 4387032 | A | 19830607 | US 1980-214260 | 19801208 |
| PRIORITY APPLN. INFO.: | | | US 1971-131763 | A2 19710406 |
| | | | US 1972-254404 | A 19720518 |
| | | | US 1972-307479 | A 19721117 |
| | | | US 1973-369584 | A 19730613 |
| | | | US 1974-434544 | A 19740118 |
| | | | US 1974-525175 | A2 19741119 |
| | | | US 1975-557757 | A2 19750312 |
| | | | US 1976-670252 | A2 19760325 |
| | | | US 1977-808462 | A2 19770621 |
| | | | US 1979-17858 | A2 19790306 |

GI For diagram(s), see printed CA Issue.

AB Aqueous foam film-forming fire-fighting compns. based on mixts. of fluorocarbons and siloxane surfactants in amts. giving a surface tension of ≤ 19 dynes/cm, are improved for subsurface introduction into burning hydrocarbons by substitution of $\geq 40\%$ with a surfactant containing a hydrophilic moiety in amts. $\geq 80\%$ than the lipophilic moiety. Especially desirable compds. are imidazolines containing quaternary ammonium hydroxides having 2 short carboxylated chains or di-Na Na octyliminodipropionate. Thus, 55 g (CF₃)₂CF(CF₂)₄CO₂H.EtNH₂ [

54785-06-7], which may contain small amts. of similar compds. containing 2, 6, and 8 CF₂ groups; 128 g of a 40% 1:1 H₂O-iso-PrOH solution of Me₃SiO(SiMeRO)₃SiMe₃ [R = (CH₂)₃OCH₂CH(OH)CH₂NMeC₂H₄SO₃Na] [54785-07-8], which may contain small amts. of similar compds. containing 2, 4, and 5 SiMeRO groups; 400 ml of a 48% aqueous solution of I [54849-16-0]; 215 ml of a 10% aqueous

solution of a Me₂N(CH₂)₃HN₂ [109-55-7] condensate with a 3:1 molar ethylene-maleic anhydride copolymer, m. 235°, viscosity of a 2% aqueous solution 7 cP; 340 ml H(OC₂H₄)₂OBu; 20 g Tris; and H₂O to make 1 gal. are mixed to form a fire-fighting concentrate which can be stored for months and which is prepared for use by mixing with 16 2/3 times its volume of water (including sea water) and sufficient air to foam with an expansion of 3-6. A similar composition containing Na nitrilotriacetate [10042-84-9] gives better results when diluted with sea water.

IT 54785-06-7

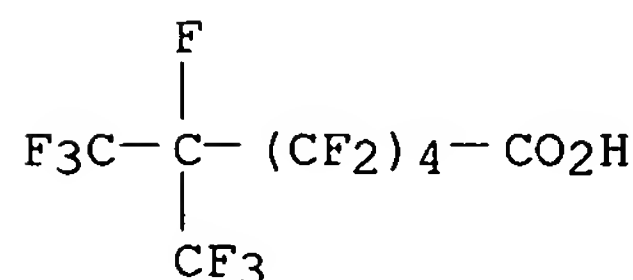
RL: USES (Uses)
(fire-extinguishing compns. containing)

RN 54785-06-7 CAPLUS

CN Heptanoic acid, 2,2,3,3,4,4,5,5,6,7,7,7-dodecafluoro-6-(trifluoromethyl)-, compd. with ethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 15166-06-0
CMF C8 H F15 O2



CM 2

CRN 75-04-7
CMF C2 H7 N



L4 ANSWER 45 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1975:444691 CAPLUS

DOCUMENT NUMBER: 83:44691

ORIGINAL REFERENCE NO.: 83:7083a,7086a

TITLE: Oil- and water-repellent composition of polymers of fluoroalkyl monomers and diacetone acrylamide or diacetone methacrylamide

INVENTOR(S): Hayashi, Takao; Kojima, Hiroaki

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: U.S., 9 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

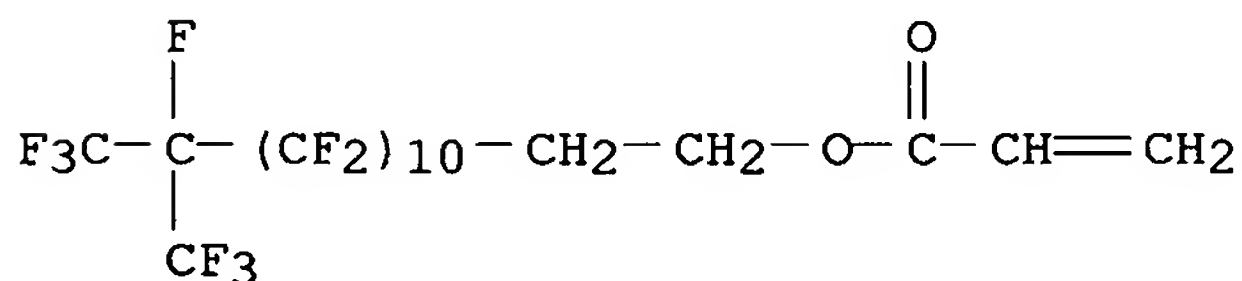
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

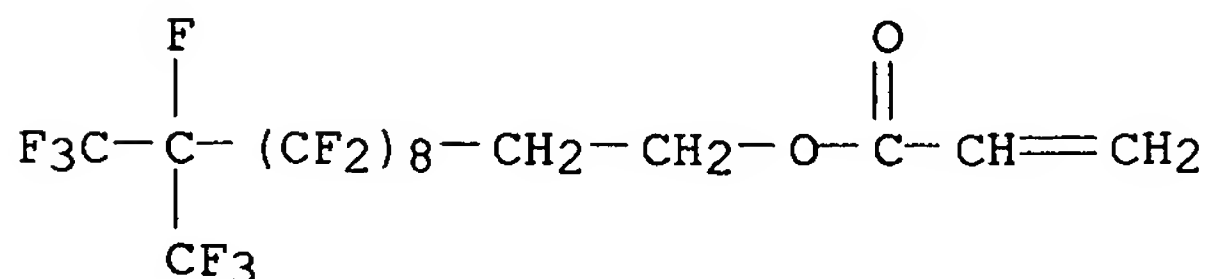
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|-------|-----------------|-------|
| ----- | ---- | ----- | ----- | ----- |

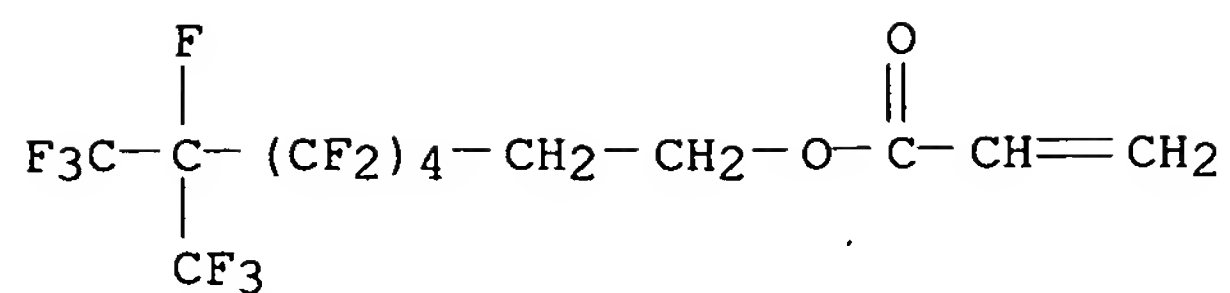
US 3838104 A 19740924 US 1972-290984 19720921
 PRIORITY APPLN. INFO.: US 1972-290984 A 19720921
 AB Textiles were given oilproof waterproof finishes, which were durable when cured at relatively low temps. and did not impair textile softness, by treating with a polymer containing $\geq 25\%$ fluoroalkyl compound and 0.2-20% diacetoneacrylamide, diacetoneacrylamide, or their hydroxymethyl derivs. An emulsion polymerization was conducted with $\text{CF}_3(\text{CF}_2)_7\text{CH}_2\text{CH}_2\text{OCOC}(\text{CH}_3):\text{CH}_2$ 3, vinyl chloride 2.5, and diacetoneacrylamide 0.2 g in a 100 ml glass ampule at 55° for 12 hr to produce 20.1 weight% polymer [52856-87-8] which was diluted with water to produce a solution with 0.4 weight% concentration A polyester fabric dipped in the emulsion was squeezed to 70% saturation, dried 3 min at 100° , and heated 4 min at 150° to give a fabric with water repellency 100 and oil repellency 130 which dropped to 80 and 100 resp., after 5 dry cleaning treatments.
 IT 55705-42-5 55705-45-8 55705-47-0
 RL: USES (Uses)
 (oilproofing and waterproofing agents, for textiles)
 RN 55705-42-5 CAPLUS
 CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl ester, polymer with chloroethane, N-(1,1-dimethyl-3-oxobutyl)-2-methyl-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-eicosafluoro-11-(trifluoromethyl)dodecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl 2-propenoate (9CI) (CA INDEX NAME)
 CM 1
 CRN 52956-82-8
 CMF C18 H7 F27 O2



CM 2
 CRN 52956-81-7
 CMF C16 H7 F23 O2



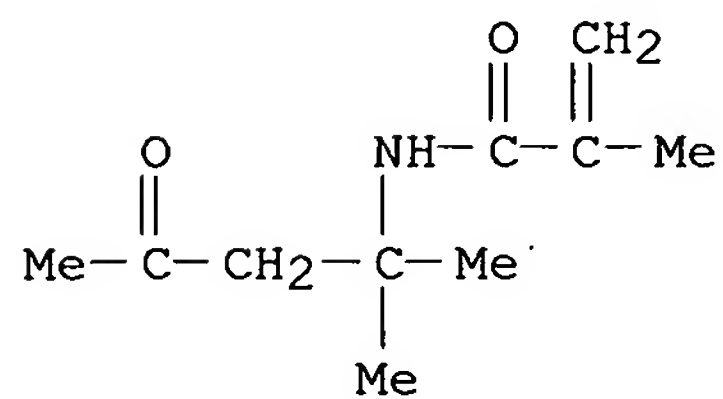
CM 3
 CRN 50836-65-2
 CMF C12 H7 F15 O2



CM 4

CRN 22029-67-0

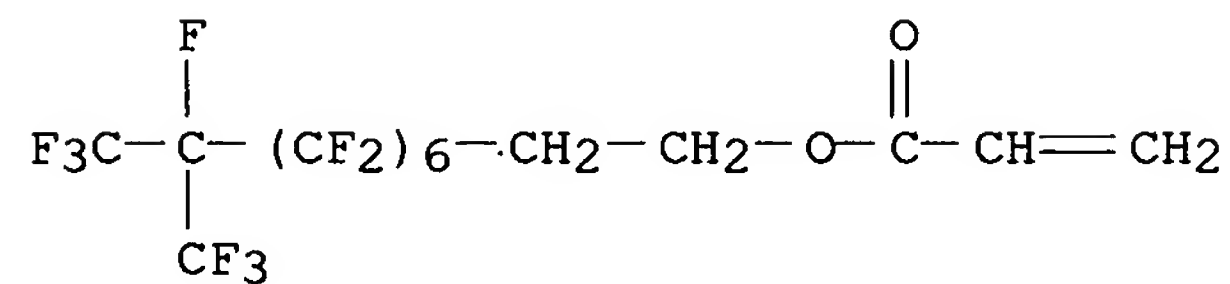
CMF C10 H17 N O2



CM 5

CRN 15577-26-1

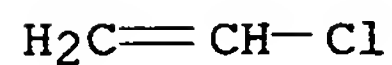
CMF C14 H7 F19 O2



CM 6

CRN 75-01-4

CMF C2 H3 Cl



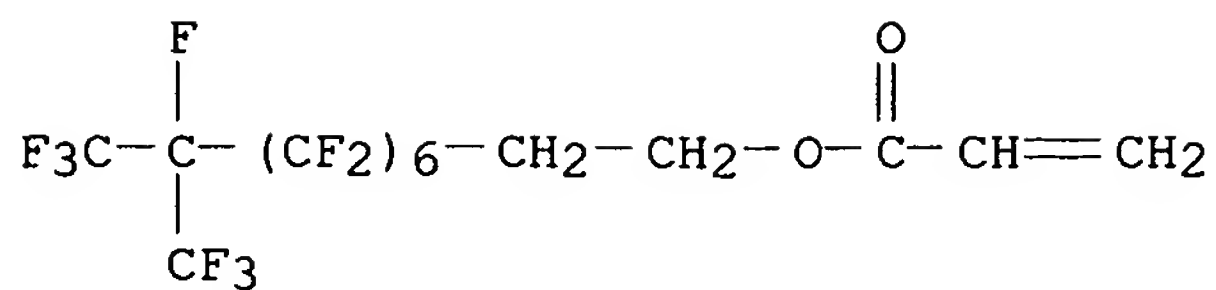
RN 55705-45-8 CAPLUS

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl ester, polymer with chloroethene and N-(1,1-dimethyl-3-oxobutyl)-2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 15577-26-1

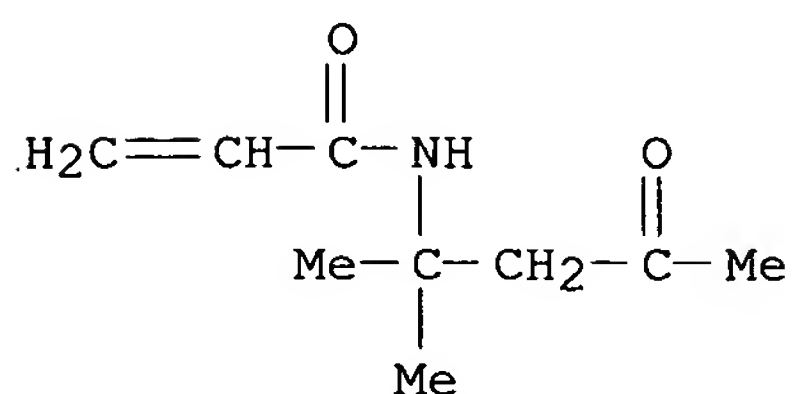
CMF C14 H7 F19 O2



CM 2

CRN 2873-97-4

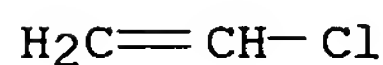
CMF C9 H15 N O2



CM 3

CRN 75-01-4

CMF C2 H3 Cl



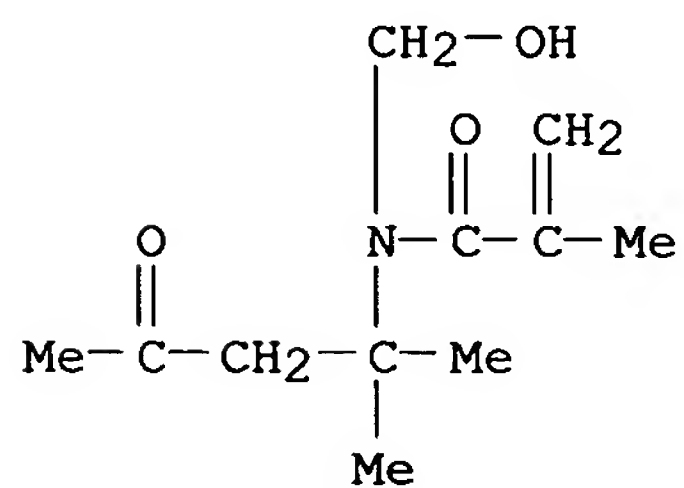
RN 55705-47-0 CAPLUS

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,8,8,8-dodecafluoro-7-(trifluoromethyl)octyl ester, polymer with chloroethene, N-(1,1-dimethyl-3-oxobutyl)-N-(hydroxymethyl)-2-methyl-2-propenamide, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,12,12,12-eicosafluoro-11-(trifluoromethyl)dodecyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,10,10,10-hexadecafluoro-9-(trifluoromethyl)decyl 2-propenoate and 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,14,14,14-tetracosafuoro-13-(trifluoromethyl)tetradecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

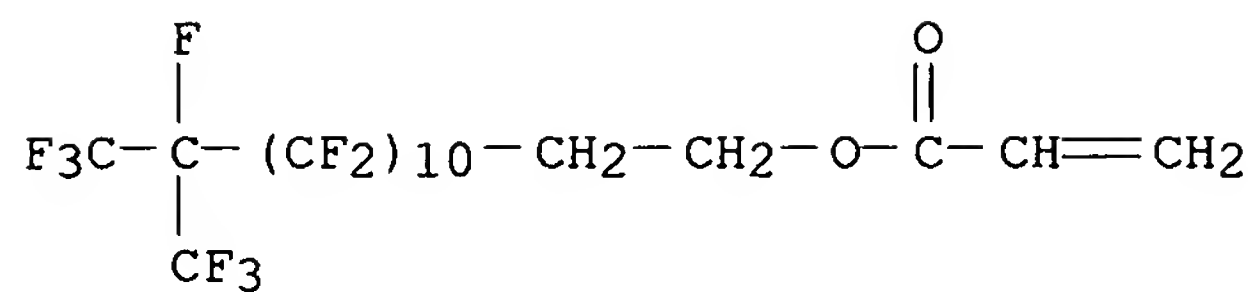
CRN 54175-56-3

CMF C11 H19 N O3



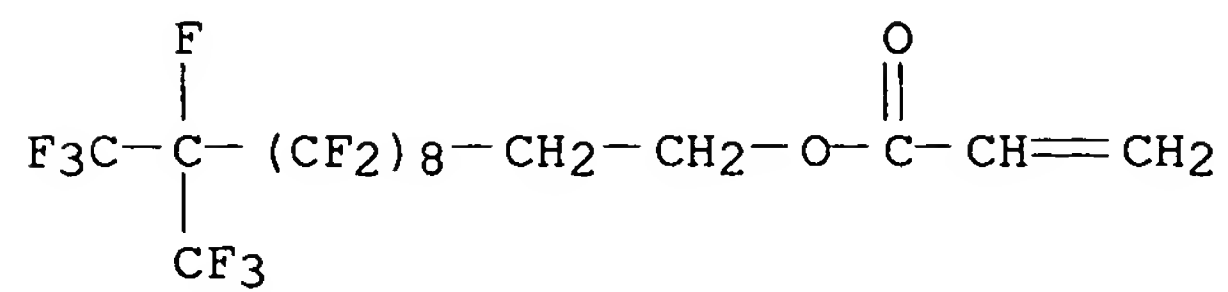
CM 2

CRN 52956-82-8
CMF C18 H7 F27 O2



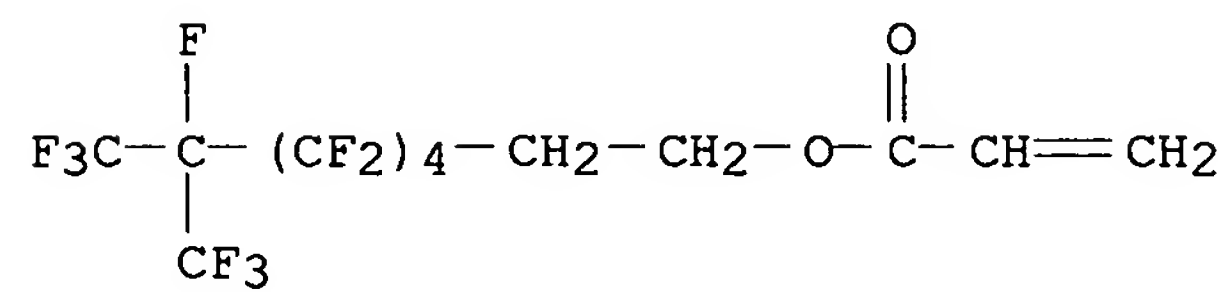
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CRN 52956-81-7
CMF C16 H7 F23 O2



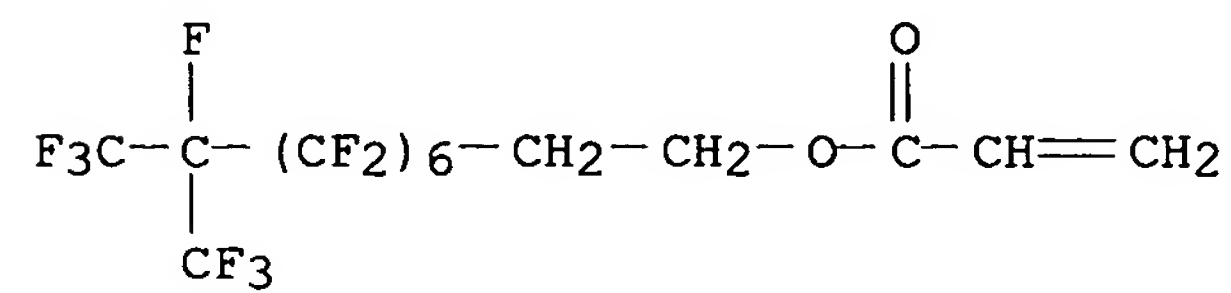
CM 4

CRN 50836-65-2
CMF C12 H7 F15 O2



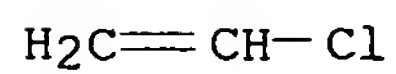
CM 5

CRN 15577-26-1
CMF C14 H7 F19 O2



CM 6

CRN 75-01-4
CMF C2 H3 Cl



L4 ANSWER 46 OF 46 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1975:87611 CAPLUS
DOCUMENT NUMBER: 82:87611
ORIGINAL REFERENCE NO.: 82:14005a,14008a
TITLE: Oil- and water-resistant composition
INVENTOR(S): Kirimoto, Kazusuke; Hayashi, Takao
PATENT ASSIGNEE(S): Asahi Glass Co., Ltd.
SOURCE: Fr. Demande, 15 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| FR 2202144 | A1 | 19740503 | FR 1972-36020 | 19721011 |
| FR 2202144 | B1 | 19760130 | | |

PRIORITY APPLN. INFO.: FR 1972-36020 A 19721011

AB Copolymers of 65-80% fluoroalkyl acrylates, 3-25% ClCH₂CH₂OCH:CH₂ or BrCH₂CH₂OCH:CH₂, and optionally other vinyl monomers were prepared and used as soil-, oil- and H₂O-resistant finishing agents for cotton, wool, and polyester textiles, without deteriorating the hand of the textile. Thus, 2-chloroethyl vinyl ether-heptadecylfluoroundecyl acrylate-styrene-vinyl chloride polymer [54140-70-4] (15:375:10:100) was prepared for use as a textile finishing agent.

IT 52856-72-1

RL: USES (Uses)

(soilproofing agent, for cotton, polyester and wool)

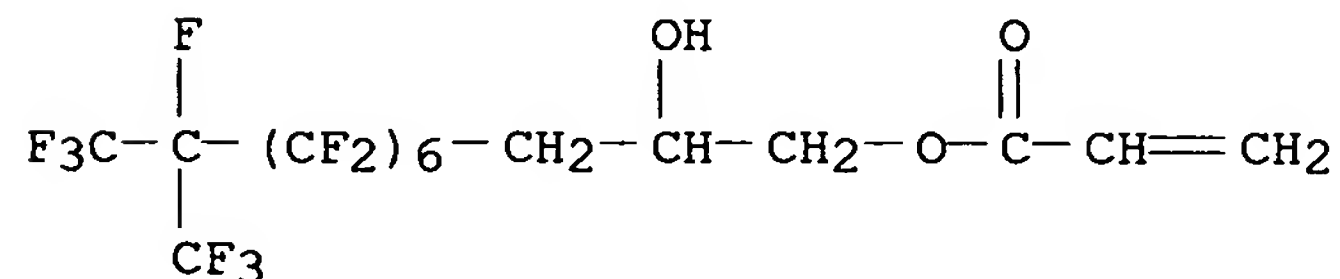
RN 52856-72-1 CAPLUS

CN 2-Propenoic acid, 4,4,5,5,6,6,7,7,8,8,9,9,10,11,11,11-hexadecafluoro-2-hydroxy-10-(trifluoromethyl)undecyl ester, polymer with chloroethene and (2-chloroethoxy)ethene (9CI) (CA INDEX NAME)

CM 1

CRN 24407-09-8

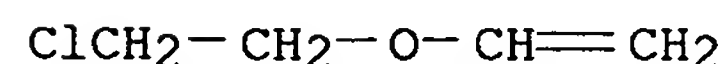
CMF C15 H9 F19 O3



CM 2

CRN 110-75-8

CMF C4 H7 Cl O



CM 3

CRN 75-01-4

CMF C2 H3 Cl

H₂C=CH-Cl

=>

---Logging off of STN---

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Executing the logoff script...

=> LOG Y

| | | |
|--|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| FULL ESTIMATED COST | 256.66 | 435.90 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| | ENTRY | SESSION |
| CA SUBSCRIBER PRICE | -36.80 | -36.80 |

STN INTERNATIONAL LOGOFF AT 09:41:46 ON 31 JAN 2008